Journal of
Polymer Science

Combined Subject Index to Volume 29

This index covers the Polymer Chemistry and Polymer Physics Editions of the *Journal of Polymer Science*, Vol. 29, 1991. The Edition in which an item appears is indicated by a C or P, respectively, following the page number.

AB_n star block copolymer, 607C
$(AB)_n$ star block copolymer, 923C
Ab initio, 1507C
AB type diblock macromonomer, 923C
AB Type diblock macromonomers, 607C
Abhesion of undecyl oxazoline block and homopolymers, 773P
ABS, photooxidation of, 685C
Absorption and desorption of organic liquids in PEEK, 1533P
Acetyl cellulose, 187C
Acetylene, 749C
Acid photogenerators, 309C
Acrolein acrylic acid copolymer, 1077C
Acrylamide, mechanochemical polymerization, 489C
Acrylate, 739C, 1151C
Acrylate dimers, 1053C
Acrylic esters, 837C
Acrylonitrile-ethyl methacrylate copolymers, 479C
Activity control, 1089C
Additive effects, 813C
Adhesives, 1667C
Aggregation of PET in hexafluoroisopropanol solutions, 431P
Alginate, 1645C
Aliphatic-aromatic poly(amide-imide)s, 1175C
Alkoxyallene, 1545C
Alkoxy-silane, 1977C
Alkoxysilane reactions, 1125C
α-Alkylacrylic acid, 1837C
Alkyl chlorides, sulfonation of, 317C
Alkyl fumaramate, 1707C
Alkyl maleamate, 1707C
Alkylaminobenzophenones, 1955C
Allyl ether, 1639C
Allyl ethers, 9C
Allyl polymerization, 1501C
Allylcyclohexane, 643C
Allylnadic-bisimides, 929C
Alumina fibers, 495C
Aluminoxane catalysts, 793C
Aluminum alkyl, 1167C
Amide exchange reaction, 1515C
Amine functional siloxanes, 657C
Amino-formaldehyde resins, 525C
4-amino[2.2]para cyclophane, 1917C
Aminosilane-epoxy prepolymer systems, 209C
Amorphous celluloses, 113C
Anhydride hydroxyl, 1329C
Anionic polymerization, 1329C
Anionic ring opening, 657C
Anisotropy of mechanical properties of biaxially drawn PVC, 897P
Aromatic amine, 599C
Aromatic diacid chlorides, 55C, 1293C, 1941C
Aromatic diamines, 995C
Aromatic dihalides, 1933C
Aromatic polyamides, 55C, 147C, 825C, 995C, 1387C
Aromatic polyamides, having high Tg, 767C
Aromatic polyethers, 1789C
Aromatic polyimides, 39C
Aromatic polysulfides, 1933C
Aromatic tetracarboxylic dianhydrides, 39C, 1691C
Aromatic tetracarboxylic dithioanhydride, 1717C
Azoaromatic polymer, 831C
Azobenzene, 1865C
Azobenzene photochromic polymers, 1455C

Bending recovery of polymeric films, 843P
Bendler-Shlesinger generalization of Vogel equation for ion-conducting polymers, 747P
Benzo-15-Crown-5, 15C
Benzoic acid, 377C
Benzyl sulfonium salt, 1675C
Benzylidene phthalides, 1313C
Benzyl-β-malolactonate, 793C
2,2′-Bibenzoic acid, 995C
Binary interaction model, 1579P
Binary phase diagrams, 635P
Binding of dyes to polymers, spectrophotometric consequences of, 1397P
Binifer, 875C
Bioabsorbable, 1759C
Bioadhesive polymers, 1895C
Biocompatibility, 831C
Biomaterial, 1023C
Biomedical, delivery system, 1023C
Biomimetic monomers, 1883C
Biosensors, 275C
Biphasic system, 1183C
Biphenyl side groups, 591C
Birefringence, orientational and distortional contributions to, 1193P
Birefringence, transient electric, of solutions of copolymers of styrene with Na-2-acrylamido-2-methylpropane sulphonate, 1361P
1,1-bis(4-aminophenyl)-2,2-diphenylethylene, 55C
3,4-bis(4-aminophenyl)-2,5-diphenylfuran, 39C
9,9-Bis(3,5-diphenyl-4-hydroxyphenyl)fluorene, 1045C
4,4′-bis(phenoxy)diphenyl sulfone, 949C
4,4′-bis(phenylthio)diphenyl sulfone, 949C
2,5-Bis(1′-propylamino)-1,4-benzoquinone, 1633C
Bis(trimethylsilyl) vinylphosphonate, 869C
Bisbenzoxazinones, 1191C
α,ω-Bis[4-(1-naphthoxy)phenyl-sulfonyl]perfluoroalkanes, 965C
Bisphenol, 1045C
Bisphenol A, 1157C
Bisphenol-A-based thermosets crosslinked with diamines, dielectric relaxations in, 1117P
Bisphenol-A-based thermosets crosslinked with diamines, dipolar relaxations in, 1127P
Blends of oligomers of

poly(ethylene glycol monomethylether) and poly(propylene glycol), 1419P
Blends of PEO and sulfonated polystyrene, phase behavior of, 759P
Blends of poly(vinylidene fluoride) and poly(methyl methacrylate), structure and properties of, 1147P
Blends of styrene/maleic anhydride copolymers with polymethacrylates phase behavior of, 413P
Blends of syndiotactic polystyrene with poly(2,6-dimethylene oxide), 265P
Blends, binary, of poly(amic acids) in N-methylpyrrolidone, 1203P
Blends, miscible, local order in, 1541P
Blends, Monte Carlo study of short-range order in, 1389P
Blends, poly(benzimidazole)/poly(ethermide) Blends, 649P
Blends, polyamide-PEO, use of IR spectra in mapping phase diagram of, 1547P
Blends, polyethylene/polystyrene, effect of diblock copolymers on dynamic mechanical properties of, 945P
Blends, polystyrene/poly(vinyl methyl ether), rheology near phase transition in, 1573P
Boron trichloride/alternating copolymerization, 1507C
BPA, aryl-terminated siloxane, 1681C
Branch, 1987C
Branched 1-olefins, 1991C
Branching processes in multistage copolymerization, stochastic theory of, 463P
4-bromo-2,6-dimethylphenol, 63C
Butadiene, 1829C
Butadiene sulfone, 1829C, 1971C
2-butene, 807C, 843C
Butyl acrylate, 1053C
β-butyrolactone, 793C

^{13}C-NMR studies, 479C
Caprolactone, 1759C
Carbocationic polymerization, of styrene, living, 421C
Carbon-13 NMR, 1801C
Carboranediol formals, 1133C
Catalase, immobilization of, 269C
Catalytic activity, 807C
Catenanes, 1213C
Cationic initiator, 1845C
Cationic initiators, 339C
Cationic photoinitiators, 1113C
Cationic photopolymerization, 1491C
Cationic photopolymerizations, 1113C
Cationic polymerization, 781C, 875C, 1089C, 1439C, 1535C, 1675C, 1845C, 1853C, 1909C
Cationic ring-opening reactions: mechanism and kinetics, 1491C
Cation-radical polymerization, 949C, 965C, 1789C
Cellulose, amorphous, 113C
Cellulose and cellulose triacetate in TFA-CH_2Cl_2 solvent mixtures, 1599
Cellulose solutions in ammonia/ammonium thiocyanate, light scattering from, 547P, 557P
Cellulose, hydroxy-propyl derivative (Klucel), X-ray scattering of aqueous solutions of, 349P
Cellulose/ammonia/ammonium thiocyanate system, 181P
Cellulose-MMA copolymers, 1301C
Ceramers, 1125C
Ceramic fiber precursor, silanol condensation reaction in, 1095P
Chain deformation in hot stretched polystyrene, SANS study of, 1607P
Chain interactions, statistical mechanisms of, 877P
Chain mobility in substituted bisphenol A polycarbonates, 731P
Chain motion in even-odd alkanes, Raman study of, 1467P
Chain rigidity, 1697C
Chain stiffness and polydispersity from light scattering data, 589P
Chain-end dynamics, 1025P
Characterization, 1561C, 1889C
Charge transfer between poly[[o-(Trimethylsilyl)Phenyl]-Acetylene]- and electron acceptors, spectroscopic study of, 669P
Chelation, 1645C
Chemical modification, 937C, 1271C
Chemical modification, catalytic, 629C
Chiral polymers, with optical activity, 287C
Chitin, 937C
4-chloroformylphthalic anhydride, 1925C
Chromatography, 1367C
Chromatography (HPLC) of styrene-methacrylate copolymers, 1073P
Chromium (III) polymer systems, 1739C
Chromium catalysts, 1949C
Cinnamate, 1623C
Cinnamate ester, 251C
Circular dichroism, 1455C
cis-1,4-polybutadiene vulcanizates, 1225C
Coatings, 739C, 1639C
Co-equilibration of siloxanes, 657C
Colon specific polymer, 1895C
Comb-shaped copolymer, 607C, 923C
Compatibilizers, 1329C
Complex formation and morphology of $NdCl_3$—PEO, 859P
Complex transition metal salts of ethylene-methacrylic acid copolymer with 1,3-bis(aminomethyl)cyclohexane, 753P
Complexation, polymer, pH dependence, 911C
Complexation of linear macromolecules with complementary oligomers, 211P
Complexes, 1645C
Composite, 1567P
Composite particles, 857C
Composite polymer particles, morphology of, 1021P
Composites, 1667C
Composites, fiber/Epoxy, Raman-mechanical spectroscopic study of stress distribution in, 235P
Composites, filled polyimides, flash radiometric study of thermal diffusivity in, 1085P
Computer programming, 703C
Conducting polymer, 1379C, 1567P
Conducting polymers, soluble, Mark–Houwink constants for, 1585P
Conductivity of polymers, theory of, 747P
Conformational energy of linear chains, 877P
Conformations of polyamides in solid state, 57P
Constitutional isomeric mesogenic units, 919C
Contact charging, 1559P
Coordination, 1421C
Copolyester, crystallization kinetics of, 893P
Copolyformals, 1133C
Copolymer, 1379C, 1465C, 1987C
Copolymer composition control, 1549C
Copolymer, blocks, polyurea,

synthesis and characterization of, 75P
Copolymer, ethylene terephthalate-co-p-oxybenzoate, gas permeation and mesomorphic morphology in, 329P
Copolymer, ethylene-vinyl acetate, two-step thermal decomposition of, 601P
Copolymerization, 703C, 773C, 1053C, 1151C, 1421C, 1759C
Copolymerization constants, 889C
Copolymerization kinetics in miniemulsion systems, model for, 483P
Copolymerization styrene oxide cyclohexene oxide, 1475C
Copolymers of methylmethacrylate and methaacryloxy-propyltris-(trimethylsiloxy) silane, gas permeability of, 1001P
Copolymers of polypropylene with ethylene-propylene random blocks, 1447P
Copolymers of styrene with Na-2-acrylamide-2-methylpropane sulphonate, solution behavior of, 1361P
Copolymers of α-methylstyrene and acrylonitrile in blends with chlorinated polyethylene, 407P
Copolymers, ethylene-vinyl alcohol, for surface modification of contact lenses, 67P
Copolymers, phenyl/undecyl oxazoline blocks, surface properties and abhesion of, 773P
Copolymers, poly ether-block amide, cryodilation of, 1427P
Copolymers, polypropylene with ethylene-propylene random blocks, structure and properties of, 1447P
Copolymers, segmented blocks of polydimethylsiloxane and polyurethane, properties of, 75P
Copolymers, solution and solid-state properties, 1301C
Copolymers, styrene/maleic anhydride, blends with polymethacrylates, 413P
Copolymers, styrene/methylmethacrylate, viscoelasticity of, 933P
Copolymers, styrene-methacrylate, chromatographic separation method for, 1073P
Copolymers, zwitterionic sulfobetaine type, thermal and dilate solution properties of, 639P
Copper ions, 139C
Counterion, 915C
Counterion binding to cationic polyelectrolytes, 805P
Coupling theory applied to solvent and dissolved polymer, 867P
CP/MAS ^{13}C-NMR, 1077C
Crack growth in polyethylene related to butyl branches, 129P
Crack propagation under fatigue in HDPE, 371P
Crazes, model for fibril deformation in, 197P
Creep and creep compliance in cooling epoxy resin, 39P
Crosslink density, of polymeric beads by swelling, 1035P
Crosslinked organotin polymer, 1501C
Crosslinked polymer, 1575C
Crosslinked polymers, 749C, 1483C
Crosslinking, 739C, 1151C
Crosslinking agents, 1097C
Crosslinking of epoxy compound, 881C
Crystal Growth in low MW α,ω-methoxy-poly(ethylene oxide), 299P
Crystal growth rate in low MW PEO, 311P
Crystal orientation in biaxially drawn polyethylene, 825P
Crystal structure, of silk, 889P
Crystal structures and transition of poly(γ-n-alkyl glutamate)s, 527P
Crystalline polymer, 1447C
Crystalline texture, 515P
Crystallinity distribution and X-ray scattering from semi-crystalline polymers, 1235P
Crystallinity of HMW polyethylene in reactor powders, 1179P
Crystallinity of polycaproamide —polyacrylonitrile grafts, 907P
Crystallinity of PVC, comparison of X-ray and thermal analysis methods for, 1407P
Crystallization and cryodilation of thermoplastic PEBA block elastomers, 1427P
Crystallization and melting of flow MW poly(ethylene oxide), 287P
Crystallization from melts of polystyrene blends, 265P
Crystallization, flow-induced from solution, 969P
Cure of bisphenol-A-based thermosets, dc conductivity in, 1117P
Cure of bisphenol-A-based thermosets, dipolar relaxations in, 1127P
Curing mechanism, 1639C
Curing of styrylpyridine polymers, 881C
11-[(4-cyano-4'-trans-α-cyanostilbene)oxy]undecanyl vinyl ether, 1615C
Cyclic acrolein acetal, 1501C
Cyclic carbonate, 781C
Cyclic ethers, 619C
Cyclic ketals, 437C
Cyclic monomer, 1825C
Cyclic oligocarbonates, 101C
Cyclic siloxanes, 657C
Cycloaliphatic amine–epoxy networks, 981P
Cyclohexane-based mesogen, 977C
Cyclohexene oxide, 1475C
Cyclophane, 1917C

D-maltose, 1271C
Deformation and recovery of polymeric films, 843P
Deformation mechanism in biaxially drawn polyethylene, 825P
Deformation of fibrils in crazes, model for, 197P
Deformation of high modulus polyethylene, 99P
Degradable biomaterials, 1157C
Degradation, 739C
Degree of liquid crystallinity, 1015C
Degree of reaction, 1963C
Density change of poly(1-trimethylsilyl-1-propyne) on annealing, 691P
Depropagation, 1779C
Dextran, 1271C
Diacetylene, 749C
Diacetylenic segments, 127C
Diacids, 233C
Dialkyl fumarate, 637C
Diamine monomers, unsymmetrical, 453C
2,5-diamino-1,4-benzoquinone polymer, 1633C
Diaminoquinone polymer, 1633C
Diarylacetylenes, 15C
2,5-di-*n*-butoxy-1,4-benzoquinone, 1633C
Dielectric relaxation of cycloaliphatic polyester networks, 93P
Dielectric relaxations in bisphenol-A-based thermosets, 1127P
Dielectric relaxations in $LiClO_4$-

poly(propylene glycol) 2000 solutions below T_g, 1215P
Dielectric study of glass and cluster transitions, 1305P
Diesters, 233C
α-(2-diethoxyphosphinylethyl)-poly(methyl methacrylate), 869C
Diethyl vinylphosphonate, 869C
Differential scanning calorimetry (DSC) in PEO crystallization, 287P
Differential scanning calorimetry (DSC) of annealed PTFE, 1255P
Differential scanning calorimetry (DSC) of HMW polyethylene reactor powders, 1179P
Differential scanning calorimetry (DSC) of polyacetylene isomerization, 501P
Differential scanning calorimetry (DSC) of α,ω-methoxy-poly(ethylene oxide), 299P
Differential scanning carolimetry (DSC), 831C
Diffusion coefficient of CO_2 in annealed polyimide, 11P
Diffusion coefficient of water vapor in polyimides, 87P
Diffusion coefficients of polymers into stressed polymer networks, 1313P
Diffusion of organic liquids in PEEK, 1533P
Diffusion of penetrant coupled with relaxation of polymer as a controlled release process, 1633P
Diffusivity of gases in aromatic polyesters correlated with X-ray diffraction, 921P
Dihydronicotinamide, 135C
Diimide-dicarboxylic acids, 447C
2,5-dimethoxy-1,4-benzoquinone, 1633C
Dimethyl 1-hexene-2,5-dicarboxylate, 837C
Dioxane, 1561C
Diphenyl disulfide oxidizing agents, 1359C
Dipolar configuration, 1819C
Direct electron transfer, 219C
Direct polycondensation, 1175C
Dispersibility, 697C
1.1-disubstituted ethylene, 1837C
Divalent metal salts, of *p*-aminobenzoic acid, 83C
Divinyl ethers, 1525C, 1535C
DNA, 1367C
Drawing and mechanical anisotropy of PVC, 897P
DSC measurements, 1751C
Dual-mode sorption, 1219C
Dynamic mechanical properties of polyethylene/polystyrene blends with added diblock copolymers, 945P
Dynamic mechanical properties of RIM produced Nylon 6, 1479P

Effect of substituent, 1089C, 1845C
Elastomer, 651C
Elastomers, segmented polyurethane, ESR spectra of, 1513P
Elastomers, thermoplastic poly-ether-block amides, cryodilation and crystallization of, 1427P
Electric field effect on IR spectra of poly(vinylidene fluoride), 1299P
Electrical conductivity of pyrolyzed polyimides, 359P
Electrically conductive polymers, 749C
Electrochemical polymerization, 1379C
Electrochromism, 1567P
Electroinitiation, 1971C
Electrolytes, 1441P
Electron donor-acceptor complexes, 773C
Electron microscopy of beam sensitive polymers, method for, 31P
Electron spin resonance studies, 1C
Electronic spin resonance (ESR) study of segmented polyurethane elastomers, 1513P
Electropolymerization, 1379C, 1971C
Electrostatic potential, 677C
Emeraldine, 759C
Emulsion copolymerization, 1231C, 1549C
Emulsion copolymerization data, 155C
Emulsion polymerisation, 1661C
Emulsion polymerization, 987C, 1265C
End group, 1987C
Endcap, 1917C
Enzyme, 1561C
Epichlorohydrin, 619C
Epitaxial growth of isotactic polypropylene on oriented polyethylene from solution, 683P
Epoxidation, 1183C
Epoxidation, of polyisobutylene-co-isoprene, catalytic, 547C
Epoxide polymerization, 1853C
Epoxide-based thermosets, relaxations in curing and aging of, 437P
Epoxides, 1421C
Epoxidized SBS, 1183C
Epoxy networks, influence of polydispersity and amine-epoxide ratio and molecular mobility in, 659P
Epoxy resin, 599C
Epoxy resin network, viscoelastic retardation spectrum in curing of, 17P
Epoxy resin, thermoacoustic measurements during cure of, 1081P
Epoxy resin, volume-dependent rate processes of, 39P
Epoxy resins, 261C
Epoxy, Brillouin scattering during curing of, 723P
Epoxy/amine non-stoichiometric networks, T_g of, 1503P
Epoxy-amine reactions, 209C
Equilibrium of polymerization, 1825C
Equilibrium polymerization, 1001C
ESR of pyrolyzed polyimides, 359P
ESR spectroscopy, 637C
Esterolysis, 777C
Ethyl acrylate, 357C, 1053C, 1549C
Ethyl Iodide, 585C
Ethyl α-hydroxymethylacrylate, 29C
Ethylene glycol, 377C
Ethylene glycol monobenzoate, 377C
Ethylene-methacrylic acid, 585C
Ethylene-vinyl alcohol copolymers, 67P
Ethynyl terminated polyether, 897C
Excited state processes, 1319C
Exo-methylene cyclic monomers, 1779C

Ferrite, 697C
Ferrocene polymers, 1039C
Ferroelectric behavior of nylon 11, 273P
Ferroelectric behavior of nylon 11 and nylon 7, 279P
Fibers, partially oriented, interatomic correlation in, 883P
Films, 1483C, 1667C
Fire retardancy, 1039C
Fire-retardant polymers, 1039C
Flory-Huggins theory, 1207C
Flow injection system, 275C
Flow-Induced crystallization from solution, 969P
Fluorescence, pyrene labelled polymer, 911C
Fluorescence spectra of polymer-bound stilbene dyes, 1397P

Fluorine-containing polymers, 555C
Fluoro-containing polyimides, 1207C
Fluorodiols, 719C
Fluoroformals, 1133C
Fluoropolyformals, 719C
Fracture energy, molecular weight dependence of, 837P
Fracture of ductile polymers, 785P
Free radical, 1639C
Fucose containing macromolecules, 1895C
Fucose recognition, 1895C
Fumaramide, 1697C
Functional material, 937C
Functional perfluoropolyether, 233C
Functional polymers, 697C
Functional polysiloxane, 1073C
Functionalization, 1329C
Fuoss-Kirkwood distribution function for interpretation of NMR relaxations, 1171P

Gas permeability, of a new silicone ring polymer, 389P
Gas permeation, 171P
Gel permeation chromatography (GPC) of semi-flexible polyimide precursors, 109P
Gel phase poly(γ-benzyl, α-*l*-glutamate) in benzyl alcohol, cholesteric mesophase in, 1373P
Gelation of poly(vinyl alcohol) solutions, 609P
Gels, 1645C
Glass and "cluster" transitions, a dielectric study of, 1305P
Glass transition in hydrogen bonded polymer complexes, 619P
Glass transition of aromatic poly(ether ketone) mPEK, 119P
Glass transition of non-stoichiometric epoxy/amine networks, 1503P
Glass transition of zwitterionic vinyl pyridine—sulfopropyl betaine copolymers, 639P
Glass transition temperature, 709C, 981P
Glass transitions, in polymer/CO_2 mixtures, 631P
Glass, structural recovery behavior of, 1303P
Glassy polycarbonate, spin relaxation of sorbed $^{13}CO_2$ in, 1009P
Glassy polymers, solvent transport in, 1457P
Glassy polymers, strain and birefringence in, 1193P
Glucose oxidase, 275C, 1217C
Glycidyl phenyl ether, 1675C, 1845C
Glycidylethers, 1491C
Graft copolymers, cellulosic, 1301C
Graft polymerization, 139C
Grafted polycrylonitrile on polycapromide fibers, 907P
Grafting, 1465C
Group transfer polymerization, 869C, 1001C
Guanine containing monomers, 1883C
Guanine derivatives, 1883C

H_{12} MDI, 1977C
H_2O radio frequency glow discharge, 535C
Halato-telechelic polyurethane-ureas, 83C
HALS, 1889C
Head-to-tail, 1623C
Heat distortion temperature, 1963C
Heat-resistant polyester, 881C
(Heparin-PEO) grafted segmented polyurethaneurea, 1725C
Heterophasic polycondensation, 1157C
Hexafluoro-1,3-dioxocane, 719C
Hexamethyldisiloxane, 303C
1,6-hexanediamine, 1633C
High performance thermoplastics, 1045C
High temperature polymers, 1293C, 1691C
High temperature/high performance polymers, 1667C
Hindered phenol, 1045C
Homogeneous Ziegler-Natta catalyst, 1595C
Homogeneous Ziegler-Natta catalysts, 1585C
Homogenous Ziegler-Natta catalyst, 1609C
Homopolymerization, of maleic anhydride, 219C
Hydroformylation, of polymers, 629C
Hydrogen peroxide, 547C, 1183C
Hydrogen peroxide electrochemical sensors, 269C
Hydrolysis and condensation, 1125C
2-Hydro-2-oxo-1,3,2-dioxaphosphorinane, 1825C
Hydrosilation reaction, 1399C, 1407C
Hydrosilylation, 1073C, 1097C
Hydrostannation, 1501C
2-(hydroxyaryl)benzoxazole-5-carboxylic acids, 1751C
Hydroxymethylation, of polymers, 629C

Imine, 749C
Induced optical activity, 1455C
Infrared and Raman spectra of poly(vinylidene fluoride), calculation of, 811P
Infrared and UV-visible spectroscopy of charge transfer in polyacetylene, 669P
Infrared dichroism technique for assessment of tie-molecules in polyethylene, 1047P
Infrared spectra of aromatic polyamide blend, mapping phase diagram with, 1547P
Infrared spectra of poly(vinylidene fluoride) in electric field, 1299P
Infrared spectral study, of noncrystalline rodlike polymers, 45C
Inifer, 875C
Initiation, 1575C
Inorganic polymer, 941C
Inorganic ultrafine particles, 697C
Interaction, 831C
Interaction parameters in polystyrene-polyisoprene-toluene systems, 161P
Interfacial, 1681C
Interfacial effects on stress distribution in fiber/epoxy composites, 235P
Interpenetrating Polymer Networks, 1031C
Interpenetrating polymer networks, 1083C
Interpolymer complexes and blends, glass transitions of, 619P
Intramolecular Cyclization (IMC), 1061C
Intrinsic viscosity of zwitterionic vinyl pyridine—sulfopropyl betaine copolymers, 639P
Iodo-chitin, 937C
Iodonium and sulfonium salts, 1535C
Ion activities in aqueous polyelectrolyte solutions, 805P
Ion association, 1441P
Ion exchange membrane, amphoteric, synthesis and characterization of, 705P
Ion-conducting polymers, application of Bendler-Shlesinger equation to, 747P
Ionene polymer, 651C
Ion-exchange, 915C
Ionization energy, 933C
Ionomers, 317C

Ionomers, transition metal, of ethylene-methacrylic acid copolymer with 1,3-bis-(aminomethyl)cyclohexane, 753P
IPDI, 1977C
Isocyanate, 1545C
Isocyanates, 1097C
Isocyanatosiloxanes, 1097C
Isocyanurate, 1545C
Isomerization, 807C, 843C
Isopropenyl *t*-butyl ketone, 1001C
4,4′-isopropylidenediphenol, 1681C
Isotactic poly(phenyl silsesquioxane), 389P

Kevlar fibers, X-ray diffraction under stress in, 1309P
Kinetic gelation, 1575C
Kinetics, 709C, 1595C, 1661C
Kinetics of *cis-trans* isomerization of polyacetylene, 501P
Kinetics of emulsion copolymerization, mathematical model for, 483P
Kinetics of polymerization and on rate, 987C
KO_2-charge transfer agent systems, 281C

Laminating resins, 411C
Langmuir-Blodgett (films), 1203C
Laser photolysis, 729C
Laser spectroscopy, 1113C, 1319C
Leucoemeraldine, 759C
Lewis acidity, 1949C
Lewis acids, 1439C
Light scattering, 1107C
Light scattering cell for pressure dependence of polymer-solvent phase transitions, 1437P
Light scattering from anisotropic sphere, Mueller matrix approach to, 1057P
Light scattering from cellulose in ammonia/ammonium thiocyanate solutions, 547P
Light Scattering from cellulose in ammonia/ammonium thiocyanate solutions, 557P
Light scattering from poly(γ-benzyl, α-*l*-glutamate) concentrated solutions in benzyl alcohol, 1373P
Light scattering from solutions of semi-flexible polyimide precursors, 109P
Light scattering of polystyrene in benzene, 153P
Light scattering study of chain stiffness and polydispersity, 589P
Light scattering study of phase separation kinetics in mixtures of polyglycol oligomers, 1419P
Light scattering, Brillouin, study of curing of thermosets by, 723P
Light scattering, depolarized, by miscible blends of dissimilar polymers, 1541P
Lignin, 1465C
Limiting oxygen index, 1039C
Linear viscoelastic dynamic moduli, correction for anomalous behavior of, 1525P
Liposome, 831C
Liquid crystal polymers, 327C
Liquid crystalline aromatic polyester, 1903C
Liquid crystalline copolyester, diffusivity of gases in, 329P
Liquid crystalline hydroxy-propylcellulose in aqueous solution, 349P
Liquid crystalline polymer surface orientation from polarized reflection spectra, 1321P
Liquid crystalline polymer, poly(γ-benzyl, α-*l*-glutamate) in benzyl alcohol, light scattering from, 1373P
Liquid crystalline polymer, Vectra, DSC and tensile tests of, 395P
Liquid crystalline polymers, 251C, 1015C, 1399C, 1407C
Liquid crystalline side-chain polymer, transport properties of poly(4-acryloyloxy biphenyl), 1163P
Liquid crystals, 1865C
Liquid crystals in cellulose solutions in ammonia/ammonium thiocyanate, 557P
Living anion, 607C
Living anionic polymerization, 1001C
Living cationic polymerization, 1615C
Living polymer, 923C
Living polymerization, 651C, 1909C
Lyotropic liquid-crystalline behavior, 1387C

Macrocyclic BPA carbonate formation, 101C
Macroheterocyclic ligands, 15C
Macromolecular activator, 1271C
Macromolecular ruthenium polypyridyl complexes, 1339C
Macromolecule metal complexes, 1739C
Macrozwitterion, 1545C
Magnesium alkyl, 1167C
Magnesium chloride supported catalysts, 505C
Mainchain chromophore, 1623C
Maleic anhydride, 219C, 773C
Maleic anhydride copolymers, 1455C
Manning's theory, 677C
Marlotherm-S®, 1751C
Mass spectrometry, 1903C
Mean sequence length, 1077C
Mechanical and thermal properties, 1031C
Mechanical properties of aromatic poly(ether ketone) mPEK, 119P
Mechanical properties of drawn blends of PVF and PMMA, 1147P
Mechanical properties of polyurethane networks, 365P
Mechanical relaxation of cycloaliphatic polyester networks, 93P
Mechanism of epoxy cure, 599C
Mechanochemical polymerization, of acrylamide, 489C
Melting of poly(vinylidene fluoride) effect of chain structure on, 1287P
Melting point depression, 1579P
Membrane, 915C
Membrane, amphoteric ion exchange, preparation and properties of, 705P
Membranes, 1645C
Membranes, asymmetric, model for phase inversion production of, 1261P
(−)-Menthyl vinyl ether copolymers, 1455C
Merocyanine dye, 677C
Mesogenic Units, 15C
Mesogenic units, 591C
Mesogenic-Nonmesogenic copolyesters, 1015C
Mesomorphic behavior, of polymers, 327C
Mesomorphic properties, 977C
Metal-coordination, 1213C
Metallocene catalyst, 1595C
Methacrylate, 1151C
Methacrylic acid, 585C
Methacrylic acid–styrene copolymers, 1203C
Methyl acrylate, 169C, 1053C
Methyl benzolyformate, 135C
(+)(S)-2-methylbutyl vinyl ether copolymers, 1455C
Methyl methacrylate, 357C, 709C, 1231C, 1507C, 1549C
Methyl methacrylate dimer, 837C
Methyl substituted diamines, 1483C
Methyl substituted polymers, 1483C

4-methyl-2,4-bis(*p*-hydroxyphenyl)-1-pentene, 369C
α-Methyleneindane, 1779C
γ-methylenelactones, 437C
Methylnadic-bisimides, 929C
2-methyl-2-nitrosopropane, 637C
3-methyl-1-phenyl-(3′-phenylacryloyl)pyrazolone-5, 889C
3-methyl-1-phenyl-4-crotonoylpyrazolone-5, 889C
1-methylthio-1-alkynes, 295C
Methyltrioctylammonium tetrakis(diperoxotungsto)-phosphate(3-), 1183C
Micellization, 1107C
Microelectronic imaging, 309C
Microemulsions, 729C
Micro-gelation, 923C
Microhardness and crystallinity of PET, 819P
Microspheres, 1197C
Miscibility of binary poly(amic acid) mixtures in N-methylpyrrolidone, 1203P
Miscibility of poly(styrene-co-acrylonitrile) with poly(styrene-co-acrylic acid), 1579P
Miscibility of poly(ε-caprolactone) with poly(styrene-co-acrylic acid), 1579P
MNDO-evaluation, 1819C
Model filled polymers, 1035P
Modified Wurtz coupling, 813C
Molecular complex, 1507C
Molecular engineering, of liquid crystal polymers, 327C
Molecular mobility in epoxy networks, 659P
Molecular motion changes during electron beam induced polymerization, 1039P
Molecular motion in aqueous poly(N-isopropylacrylamide), 963P
Molecular motions below T_g in glassy polymers, model for, 1329P, 1345P
Molecular orbital method, 1507C
Molecular theory of brittle fracture of entangled polymers, 837P
Molecular weight distribution, 709C
Molecular weight distribution from SEC and solution viscosity, 1137P
Molecular weight drop, 1515C
Molecular weights, 1231C
Molecular weights and Mark–Houwink constants for soluble conducting polymers, 1585P
Monocyclopentadienyltributoxy titanium/methylaluminoxane catalyst, 1253C
Monodispersion, 1197C
Monomer reactivity ratios, 1697C, 1707C, 1779C, 1991C
Monomer synthesis, 1883C
Monomer-isomerization polymerization, 643C, 807C, 843C, 1707C
Morphology, 857C
Morphology and physical properties of ionic polyurethanes, 581P
Morphology of composite latex particles, 1021P
Morphology of crystals of low MW PEO, 311P
Morphology of drawn blends of PVF and PMMA, 1147P
Morphology of PET related to microhardness, 819P
Morphology of PET, NMR study of, 49P
Mueller matrix model for small-angle light scattering, 1057P
Multiple shells-core particle morphology, 709C

N^6-acetylguanine containing monomers, 1883C
N-(2-hydroxypropyl)methacrylamide copolymers, 1895C
N,N′-bis(trimethylsilyl) diamines, 1925C
N,N′-bis(ω-carboxyalkyl)pyromellitimides, 1175C
n-Alkanes, odd, and disubstituted derivatives, Raman spectra of, 1467P
N-alkylated nylone-66, 243C
N-butyl acrylate, 357C
n-butyl acrylate, 709C
N-trimethylsilylated aromatic diamines, 1717C
Nadic-bisimides, 929C
Near-UV resist, 399C
Network, 1759C
Network formation in multi-stage processes, theories for, 463P
Network polyester, 1963C
Networks formed by phase separation, 1473P
Networks of cycloaliphatic polyester, mechanical and dielectric relaxation of, 93P
Networks of non-stoichiometric epoxy/amine, T_g of, 1503P
Networks, bimodal elastomeric, biaxial extension of, 355P
Networks, molecular weight dependence of fracture energy in, 837P
Networks, of pressure on pressure effect on gas permeability in, 457P
Networks, Polyurethane, mechanical behavior of, 365P
Networks, stressed diffusion of polymer molecules into, 1313P
Neutron scattering (SANS) from hot stretched polystyrene, 1607P
New synthetic method, 1717C, 1925C, 1933C, 1941C
Nitrodiols, 719C
Nitroformals, 1133C
Nitropolyformals, 719C
Nitroxyl free radicals, 201C
NMR (or ^{13}C NMR), 1987C
NMR and IRFT model compounds, 1649C
NMR of $^{13}CO_2$ sorbed in glassy polycarbonate, 1009P
NMR relaxation, in polymer melts, 1025P
Nonconjugative enone, 1001C
Noncrystalline rodlike polymers, 45C
Nonlinear components in oscillatory measurement of dynamic moduli, correction for, 1525P
Nonlinear electro-optical response, 1819C
Nonlinear optical polymers, 1623C
Nonlinear transient flow behavior of entangled polymers, 1589P
Nonthrombogenic surface, 1725C
Norbornadiene-quadricyclane polymers, 671C
Nuclear magnetic resonance (NMR) of epoxy networks, 659P
Nuclear magnetic resonance (NMR) of helical polypeptides, 451P
Nuclear magnetic resonance (NMR) of PET in fiber formation and processing, 49P
Nuclear magnetic resonance (NMR) of solid state polyamides, 57P
Nuclear magnetic resonance (NMR) relaxation of aqueous poly(N-isopropylacrylamide), 963P
Nuclear magnetic resonance (NMR) relaxation study of electron beam induced polymerization, 1039P
Nuclear magnetic resonance (NMR) relaxations, distribution function for, 1171P
Nylon 11, ferroelectric behavior of, 279P
Nylon 11, ferroelectric

polarization switching in, 273P
Nylon 6, RIM produced, dynamic mechanical analysis of, 1479P
Nylon 6, swollen with D_2O, SANS and SAXS study of, 509P
Nylon 7, ferroelectric behavior of, 279P

o-nitrobenzyl ether, 1875C
Oil-soluble generators, 1661C
Oil-soluble initiator, 987C
Oil-soluble initiators, 1265C
Olefin copolymerizations, 1603C
Olefin copolymers, 1585C
Olefin polymerization, 505C
Olefin terpolymerization, 1609C
Olefin-copolymerization, 1595C
Oligomers, 233C
One-shot polymerization, 607C
Optical activity, 1281C
Optically active copolymers, 1455C
Ordered network structure, 1963C
Ordering and specific interaction in miscible blends of dissimilar polymers, 1541P
Ordering in miscible binary polymer blends, Monte Carlo study of, 1389P
Organic chemistry, 599C
Organic-soluble aromatic polyamides, 767C
Organofluorine compounds, 233C
Organotin hydride, 1501C
Organotin polymer, 1501C
Oxepane, 1421C
Oxetanes, 1421C
Oxidation, 1639C
Oxidative coupling polymerization, 749C
Oxidative polymerization, 1359C
Oxirane copolymerization, 1475C
Oxyethylene oligomers, methoxy- or hydroxy-ended, Raman spectra of, 1613P
Oxygen, 1217C
Oxygen plasma etching, 1031P

p-chlorostyrene, 875C
p-isopropenylphenyl glycidyl ether, 339C
^{31}P-NMR spectroscopy, 1219C
Parameter estimation, 703C
Partial molar volumes of argon in poly(ethyl methacrylate) above and below T_g, 225P
PBIC gels, 1473P
PEO fractions, 515P
Perchlorate anions, 759C
Percolation effects in polyethylene-starch blends, 565P
Permeability of gases in thermotropic poly(ethylene terephthalate-co-p-oxybenzoate), 329P
Permeation and sorption of gases in, 695P
Permeation of CO_2, O_2 and M_2 in copolymers of MMA and TRIS, 1001P
Permeation of CO_2 in glassy polycarbonate, 1009P
Permeation of gas in bisphenol A polycarbonates with isopropylidene replacement, 731P
Permeation of gases in rubbery polymers, effect of pressure on, 457P
Permeation of O_2 in annealed poly(1-trimethylsilyl-1-propyne), 691P
Peroxidase, 1561C
Peroxide, 581C
Pervaporation, 915C
Pet fibers, 765P
pH effect, polymer complexation, 911C
Phase behavior of blends of styrene/maleic anhydride copolymers with polymethacrylates, 413P
Phase behavior of PEO and sulfonated polystyrene in blends with and without solvent, 759P
Phase behavior of poly(vinyl alcohol) solutions, 609P
Phase diagrams, binary, 635P
Phase equilibria in polystyrene-polyisoprene-toluene systems, 161P
Phase inversion technique in formation of asymmetric membranes, 1261P
Phase separation, 1559P
Phase separation in polyurethane, paramagnetic label study of, 1513P
Phase separation of poly(ethylene glycol monomethylether) and poly(propylene glycol) oligomer mixtures, 1419P
Phase transfer catalyst, 1157C
Phase transfer catalysts, 243C
Phase transfer catalyzed polycondensation, 1875C
Phase transition, thermochromic, of poly(3-alkylthiophene), 1223P
Phase transitions in polymer-solvent systems under pressure, optical cell for light scattering study of, 1437P
Phase transitions of linear aliphatic polyesters, 1107P
2,2′-(1,4-phenylenedivinylene)bis-5-hydroxypyridine, 881C
2,2′-(5-phenylenedivinylene)bis-pyridine bismaleimides, 411C
1-phenylethyl acetates, 1439C
Phenylethynyl pendant groups, 1061C
Phenyl-propylsilsesquioxane, reaction under fiber spinning conditions in, 1095P
Phillips type catalysts, 1949C
Phospholipid, 1367C
Phospholipid polymer, 831C
Phosphorylated, 1367C
Phosphorylation, 825C
Photochemical curing, 309C
Photochemical synthesis, of nitroxyl free radicals, 201C
Photochemistry, 1339C, 1739C
Photochromism, 651C
Photoinduced cationic polymerization, 1525C
Photoinitiation, 729C, 1955C
Photoinitiators for cationic processes, 1491C
Photomechanical behavior, 651C
Photooxidation of ABS, 685C
Photopolymerization, 1955C
Photo-redux induced cationic polymerization, 1525C
Photoresponsive polymers, 1865C
Photosensitive polymer, 1875C
Photostabilizers, 739C
Phthalides, 1313C
Physical properties, 1281C
Piperidinyl carbamate, 1889C
Plasma polymerization, 1801C
Plasma-induced polystyrene radicals, 1C
Plasticization of rubbery polymers by high-pressure CO_2 sorption, 989P
Plasticized poly(ethyl acrylate) ionomer, 1305P
Plasticized PVC, molecular kinetics and viscoelasticity of, 1493P
Platinum colloid initiators, 1853C
Platinum initiators, 1853C
PMMA, 631P
Poisson-Boltzmann equation, 677C
Polarizability tensor, 1819C
Polarized reflection spectroscopy of liquid crystalline polymer surface, 1321P
Poly (2,2′-bithiophene), 1379C
Poly (butadiene sulfone), 1971C
Poly (*n*-butylisocyanate), 1473P
Poly [methyl(1-oxypyridine-3 yl) siloxane] characterized from SEC and viscosity data, 1137P
Poly(2,6-dimethyl-1,4-phenylene dioxide)/polydimethyl-siloxane, 131C
Poly(4-acryloyloxy biphenyl),

transport and biphasic properties of, 1163P
Poly(3-alkylthiophene), structure and thermochromic phase transition of, 1223P
Poly(amic acid), 1515C
Poly(amic acid) mixtures in N-methylpyrrolidone, 1203P
Poly(amide-azomethine-ester), 361C
Poly(amide-azomethine-ether), 1447C
Poly(amide-sulfonamide)s, 453C
Poly(arylene ether)s, 1667C
Poly(arylene ethers), 1045C
Poly(aryl-ether-ether-ketone) (PEEK), sorption and diffusion of organic liquids in, 1533P
Poly(benzylidene phthalides), 1313C
Poly(1-butene), 843C
Poly(butylene terephthalate), molton, 1141P
Poly(butylene terephthalate), multiple beam STEM study of, 31P
Poly(diethylene glycol-trans-1,4-cyclohexane dicarboxylate) networks, relaxation behavior of, 93P
Poly(dimethyl siloxane), improved treatment of, solution thermodynamics of, 1P
Poly(dimethylsiloxane), 697C
Poly(dimethylsiloxane), stress-strain in bimodal elastomeric networks of, 355P
Poly(ester carbonates), molecular motions below T_g in, 1329P
Poly(ether ether ketone), 1045C
Poly(ether ketone), mPEK, characterization and Properties of, 119P
Poly(ether-urethane), 535C
Poly(ethyl methacrylate), sorption and dilation isotherms for argon in, 225P
Poly(ethylene oxide) fractions, 515P
Poly(ethylene oxide), crystal growth in low MW fractions of, 311P
Poly(ethylene oxide), low MW, crystal growth in, 287P
Poly(ethylene oxide)—$NdCl_3$ complex, morphology of, 859P
Poly(ethylene terephthalate), 377C
Poly(ethylene terephthalate) interchain interactions in hexafluoroisopropanol solutions of, 431P
Poly(ethylene terephthalate), morphology and microhardness of, 819P
Poly(ethylene terphthalate), morphology and NMR of, 49P
Poly(ethylene)-g-co-acrylic acid, 269C
Poly(3-hexylthiophene), intrinsic viscosity and GPC in THF solutions of, 1585P
Poly(2-hydroxyethyl methacrylate), 393C
Poly(4-hydroxystyrene), hydrogen bonded complexes with poly(N,N-dimethyl acrylamide), poly(ethyl oxazoline) or poly(vinyl pyrrolidone), 619P
Poly(methacrylates), molecular motions below T_g in, 1345P
Poly(2-methoxy-5-methythio-1,4-phenylene vinylene), 93C
Poly(methyl methacrylate), methanol-induced opacity in, 1457P
Poly(methyl, 2-carboxymethyl-propyl siloxane), 1073C
Poly(methylhydrosiloxane), 1073C
Poly(*N*-(4-hydroxyphenyl)male-imidealt-*p*-trimethylsilyl-styrene), 399C
Poly(N-isopropylacrylamide), molecular motion under high pressure in aqueous solutions of, 963P
Poly(*n*-vinyl pyrrolidone)-phenoxy water gels, 247P
Poly(oxyethylene), preparation of, single-molecule single-crystals of, 139P
Poly(*p*-chlorostyrene), 875C
Poly(phosphoester), 1157C
Poly(p-oxybenzoate-co-p-phenylene isophthalate)s, crystallization kinetics of, 893P
Poly(*p*-phenylene sulfide), 1359C
Poly(p-phenylene terephthalamide), X-ray diffraction under stress in, 1309P
Poly(propylene glycol), 697C
Poly(substituted-acetylene), 171P
Poly(tetrafluoroethylene), 555C
Poly(tetrafluoroethylene)-g-co-acrylic, 269C
Poly(tetrahydrofuran), 651C
Poly(1-trimethylsilyl-1-propyne), 171P
Poly(1-trimethylsilyl-1-propyne), density and permeability after annealing of, 691P
Poly(vinyl alcohol), phase behavior and gelation of solutions of, 609P
Poly(vinyl chloride) crystallinity from X-ray diffraction and thermal analysis, 1407P
Poly(vinyl chloride), biaxially oriented, mechanical anisotropy of, 897P
Poly(vinyl Chloride), sorption and diffusion of methane and 1-butene in, 1069P
Poly(vinyl chloride), viscoelasticity and molecular kinetics of, 1493P
Poly(vinyl methyl ether), 849C
Poly(vinylidene fluoride), 555C
Poly(vinylidene fluoride), chain structure influence on melting temperature of, 1287P
Poly(vinylidene fluoride), electric-field effect on IR spectra of, 1299P
Poly(vinylidene fluoride), prediction of vibrational spectra of, 811P
Poly(β-hydroxybutyrate-co-β-benzyl malate), 793C
Poly(β-propiolactones), 1281C
Poly(γ-benzyl-L-glutamate) in concentrated solutions, theory of rheology of, 1271P
Poly(γ-benzyl-L-glutamate), NMR study of relaxations in, 451P
Poly(γ-hexyl-L-glutamate), NMR study of relaxations in, 451P
Poly(γ-n-alkyl glutamate)s, crystal transition and structure of, 527P
Polyacetylene, kinetics of *cis-trans* isomerization of, 501P
Polyacetylenes, substituted, 471C
Polyacrylamide, complexation with polyacrylic acid, 911C
Polyacrylate rubber-modified polymers, staining technique for study of toughening mechanisms in, 1623P
Polyacrylates, 1865C
Polyacrylic acid, complexation with polyacrylamide, 911C
Polyacrylonitrile grafts on polycaproamide, 907P
Polyamide-benzoxazoles, 1941C
Polyamide-imides, 1925C
Polyamides, silicon-containing, 147C
Polyamides, NMR study of, solid state conformations of, 57P
Polyamides-imides, 447C
Polyanhydrides, 571C
Polyaniline, 1567P
Polyarylether, 897C
Polybutadiene sulfone, 1829C
Polybutadiene, surface force measurement of viscoelastic properties of, Solutions of, 677P
Polycaproamide fibers, structure

of polyacrylonitrile grafts on, 907P
Polycarbonate, 781C, 1681C
Polycarbonate urethane-polymethyl methacrylate, 1031C
Polycarbonate, orientation dependence of polarizability anisotropy in, 1193P
Polycarbonates, isopropylidene replacement effecting gas transport in, 731P
Polycatenane, 1213C
Polychloromethylstyrene microspheres, 347C
Polydiacetylenes, 127C
Polydimethylsiloxane, 131C
Polydimethylsiloxane block copolymers, 193C
Polydimethylsiloxane polyurea-urethanes and related zwitterionomers, 75P
Polydispersity index from light scattering data, 589P
Polydispersity index, chromatographic method for determining, 715P
Polydispersity of stiff polymers, effect on rheology of, 1271P
Polyelectrolytes, 677C, 1645C
Polyelectrolytes, cationic, counterion binding to, 805P
Polyelectrolytic properties of $LiClO_4$-PPG 2000 solutions, 1215P
Polyepichlorohydrin diols, 619C
Polyesters, 1281C
Polyesters, aromatic, correlation of X-ray diffraction and gas transport in, 921P
Polyesters, linear aliphatic, heat capacity and thermodynamic functions of, 1107P
Polyether, 1875C
Polyether ketone, 897C
Polyether sulfone, 1045C
Polyether sulfones, 949C, 965C
Polyethersulphone block copolymers, 193C
Polyethylene, 1167C
Polyethylene catalysts, 1949C
Polyethylene chlorinated miscibility in blends with α-methylstyrene—acrylonitile copolymers, 407P
Polyethylene reactor powders, crystallinity of, 1179P
Polyethylene, deformation mechanism in biaxial drawing of, 825P
Polyethylene, high density, fatigue crack propagation in, 371P
Polyethylene, high modulus, Raman spectra of, 99P
Polyethylene, infrared dichroism as measure of tie-molecule concentration in, 1047P
Polyethylene, preparation of, single-molecule single-crystals of, 139P
Polyethylene, slow crack growth and butyl branching in, 129P
Polyethylene, spherulitic morphology in thermal oxidation of, 795P
Polyethylene, virgin powder, Raman LAM study of lamellar thickness of, 1189P
Polyethylene-starch blends, percolation effects in, 565P
Polyformals, 719C, 1133C
Polyiimide resin PMR 15, 1347C
Polyimide blends, 1207C
Polyimide precursors (amic acids and esters), light scattering and size exclusion chromatography of, 109P
Polyimide thermoplastic kinetics, 1649C
Polyimide, gas transport in, 11P
Polyimides, 1483C, 1917C
Polyimides, pyrolyzed electrical conductivity of, 359P
Polyimides, solubility of CO_2 and CH_4 in, 341P
Polyimides, solubility of water vapor in, 87P
Polyimine, 749C
Polyisobutylene, 421C, 427C
Polyisobutylene-co-isoprene, 547C
Polyisocyanates, 1097C
Polymer blends, 1559P
Polymer complexation, inter/intra molecular, 911C
Polymer conformation, pH effect, 911C
Polymer drug, 1023C
Polymer-bound pH probe, 677C
Polymeric nucleophile, 777C
Polymeric phosphonic acids, 869C
Polymeric phosphonic esters, 869C
Polymeric viologens, 135C
Polymerizability, 1789C
Polymerization, 1167C, 1197C, 1281C, 1561C
Polymerization initiator, 1909C
Polymerization mechanism, 949C, 1789C
Polymerization, electron beam induced, of trimethylolpropane triacrylate and methacrylate analog, 1039P
Polymer–ruthenium complexes, 1339C
Polymethacrylates in blends with styrene/maleic anhydride copolymers, 413P
Polymethane, 739C
Polymorphism, 1649P
Polyphosphate esters, 1039C
Polyphosphates, 1157C
Polyphosphonates, 1157C
Polyphthalides, 1313C
Polypropylene, 581C
Polypropylene, epitaxial growth on oriented polyethylene, 683P
Polypyrrole, 1379C
Polyquinazolones, 1191C
Polyrotaxane, 1213C
Polysilane synthesis, 813C
Polysiloxane, 977C
Polysiloxanes, 1125C
Polystyrene, 631P, 849C, 1031P, 1367C
Polystyrene radicals, 1C
Polystyrene, hot stretched, SANS study of, 1607P
Polystyrene, improved treatment of, solution thermodynamics of, 1P
Polystyrene, melt crystallization in blends of, 265P
Polystyrene, second and third virial coefficients in, benzene solutions of, 153P
Polystyrenes, insoluble, 243C
Polysulfone, 897C
Polytetrafluoroethylene, calorimetric study of room temperature transitions of, 1255P
Polytitanosiloxane, 941C
Polyurethane, 1759C
Polyurethane rigid foams, 1083C
Polyurethane, paramagnetic label study of phase separation in, 1513P
Polyurethanes, carboxylate-containing chain-extended, 581P
Polyurethanes, mechanical properties of networks of, 365P
Poly-β-butyrolactone, 793C
Poly-β-hydroxybutyrate, 793C
Poly[bis(trifluoroethoxy)-phosphazene], 695P
Poly[bis(trifluoroethoxy)-phosphazene], gas permeation in, 695P
Poly[[o-(trimethylsilyl)phenyl]] acetylene, charge transfer in, 669P
Precursor, 941C
Precursors of PMR 15 ^1H and ^{13}C NMR structural study, 1347C
Propagating radical, 637C
2-propenamide, 1465C
Propenylcyclohexane, 643C
2-(1′-propylamino)-5-(1′-butoxy)-1,4-benzoquinone, 1633C
Propylene polymerization, 459C, 1807C

Protection, 1271C
PVT studies, 1141P
Pyrolysis-gas chromatography, 1903C
Pyromellitic dianhydride, 1963C
Pyrroles, 773C

Q/e values, 889C

Radiation, 1197C
Radiation polymerization, 1829C
Radical copolymerization, 889C, 1697C, 1837C
Radical distributions, 1661C
Radical efficiencies, 1955C
Radical formation locus, 1265C
Radical photopolymerization, 1319C
Radical polymerization, 637C, 923C, 1151C, 1217C, 1697C, 1707C, 1837C
Radical Polymerization, 1501C
Raman LAM study of lamellar thickness of PE powder, 1189P
Raman spectra in methoxy or hydroxy-ended oligo(oxyethylene)s, 1613P
Raman spectra of high modulus polyethylene fiber, 99P
Raman spectra of odd α,ω-disubstituted *n*-alkanes, 1467P
Raman spectral data, for polymer electrolytes, 1441P
Rare earth metal dopants in PEO, 859P
Reaction injection molding (RIM) produced Nylon 6, dynamic mechanical analysis of, 1479P
Reactive precursor, 937C
Reactivity, 1465C
Reactivity of isocyanate group, 1977C
Reactivity ratios, 155C, 703C
Reactivity ratios oxiranes, 1475C
Regioselective modification, 937C
Relative conc. of aldehyde, 1077C
Relaxation of entangled polymers under high shear, 1589P
Relaxation of polymer matrix during solvent mass transfer model for controlled release, 1633P
Relaxation of polymeric films after bending, 843P
Relaxations below T_g in amorphous polymers, model for, 1329P, 1345P
Relaxations in bisphenol-A-based thermosets, 1117P
Relaxations in curing and aging of epoxide-based thermosets, 437P
Relaxations of epoxy thermosets from Brillouin scattering, 723P
Relaxations of solvents, coupling theory for, 867P
Relaxations, thermal, dielectric, mechanical, of miscible blends of polybenzimidazole and polythermide, 649P
Resistance to cracking of HDPE, molecular basis for, 371P
Rheology of concentrated solutions of stiff polymers, theory of, 1271P
Rheology of entangled polymers at high shear rates, 1589P
Rheology of polystyrene/poly(vinyl methyl ether) blends near phase transition, 1573P
Rigid-rod aromatic-heterocyclic polymers, 121C
Ring opening polymerization, 657C
Ring-opening polymerization, 781C, 1853C
Rod-like polymers, 1387C
Rotaxanes, 1213C
Rubber elasticity theories, status and development of, 627P
Rubbery polymer films, gas permeation under high pressure in, 457P

S,S'-bis(trimethylsilyl) dithiols, 1933C
s-triazine, 825C
SBS, 1183C
Scanning transmission electron microscopy (STEM), 31P
Schiff base, 749C
Scholl reaction, 949C, 965C, 1789C
Second and third virial coefficients of polystyrene in benzene, 153P
Second virial coefficient, 547P
Seed latex, 1661C
Seeded emulsion copolymerization, semicontinuous, 169C
Seeded emulsion polymerization, 785C
Self-diffusion, of PEO fractions, 515P
Semicontinuous reactor, 1549C
Semi-crystalline polymers, tie-molecule concentration in, 1047P
Separation, 915C
Shear strain experiments, single-step and double-step, constitutive relaxation for, 537P
Side chain liquid crystalline polymer, 1819C
Side chain liquid crystalline polymers, 919C, 1399C, 1407C
Side-chain liquid crystalline polymer, 977C
Side-on mesogenic group, 1819C
Silanol condensation reaction of phenyl-propylsilsesquioxane, 1095P
Silica, 697C, 1167C
Silicic acid, 941C
Silicon polycarbonate copolymer, 1681C
Silicon-containing polyamides, 147C
Silicone copolymers, 303C
Silicone elastomer, sorption of CO_2 in, 989P
Silicone polymers, 389P
Silk, crystal structure of, 889P
Siloxane, 1681C
Siloxane copolymers, 657C
Siloxane equilibration, 657C
Silphenylene-siloxane polymers, 1399C, 1407C
Simulation, 1575C
SIN, 1031C
Single-molecule single-crystals of polyethylene and poly(oxyethylene), 139P
SiO_2-TiO_2 oxide fiber, 941C
Size exclusion chromatography (SEC) in determination of polydispersity index, 715P
Smective mesophase, 1615C
SO_2-amine solvent systems, 113C
Soapless emulsion copolymerization, 709C
Sodium lauryl sulfate, 987C
Sodium methacrylate, 709C
Solar energy, 671C
Sol-gel approach, 905C
Solid and liquid states, 1649C
Solid-state NMR spectroscopy, 1219C
Solubility of CO_2 and CH_4 in polyimides, 341P
Soluble chitin derivative, 937C
Soluble polyarylates, 1293C
Soluble polyimides, 1691C
Soluble prepolymers, 1963C
Soluble thiol polymer, 777C
Solution polymerization, 1825C
Solution properties, 1107C
Solutions of polymers, coupling theory for relaxations of solvent and chain segments in, 867P
Solvent, 813C
Solvent interactions of cellulose and cellulose triacetate in ternary mixtures with trifluoroacetic acid and CH_2Cl_2, 1599
Solvent resistant thermoplastics, 1061C

Sorption and transport of methane and 1-butene in PVC, 1069P
Sorption of argon in poly(ethyl methacrylate), 225P
Sorption of CO_2 and CH_4 in polyimides, 341P
Sorption of CO_2 in annealed polyimide, 11P
Sorption of CO_2 in silicone elastomer, nitrile rubber and PTFE, 989P
Sorption of methanol in PMMA, 1457P
Sorption of polymer liquids in crosslinked polymers, effect of stressed on, 1313P
Sorption of water vapor in polyimides, 87P
Spacer effects in side chain LCPs, 1399C, 1407C
Specific volume in cooling epoxy resin, 39P
Spectra of dyes, absorption and emission, influence of polymers binding on, 1397P
Spectral characterization, 1623C
Spherulitic morphology in thermal oxidation of HDPE, 795P
Spin trapping, 637C
Spiro ortho ester, 1151C
Staining with osmium tetraoxide as investigative technique in rubber-modified polymers, 1623P
Starch in polyethylene blends, accessibility of, 565P
Statistical design, 1053C
Statistical mechanics of complexation of macromolecules with oligomers, 211P
Statistical theory of multi-stage development of networks, 463P
Stereochemistry, 599C
Steric effect, 1837C, 1991C
Steric hindrance, 637C
Stress distribution in composites, interfacial effects on, 235P
Stress relaxation, general constitutive equation for, 537P
Stress-strain in bimodal elastomeric networks, 355P
Structural recovery behavior, of glass, 1303P
Structure, 1465C
Structure and axial symmetry of fibers, 883P
Structure–property relations, 1387C
Styrene, 9C, 29C, 421C, 1231C, 1243C, 1253C
Styrene emulsion polymerizations, 515C
Styrene oxide, 1475C
Styrene-butadiene, 1183C
Styrene-butadiene copolymers, hydroformylation, 629C
—, hydroxymethylation, 629C
Styrene-butadiene-styrene, 1183C
Styrene-isoprene block copolymers, 1107C
Styrene-methyl methacrylate, emulsion copolymerization of, 483P
Styrenes, 933C, 1439C
Styrylpyridine based polyesters, polyurethanes, epoxy resin, 881C
Styrylpyridine prepolymers, 411C
Substituted polymethylene, 1697C, 1707C
Sulfonated amino-formaldehyde resins, 525C
Sulfonation, of alkyl chlorides, 317C
Sulfonium salt, 1089C, 1845C
Sulfonyldianilines, 1175C
Sulfur atom, 295C
Sulfur dioxide, 1829C
Supportal zirconocene catalyst, 1603C
Surface force apparatus for study of polymer solutions or melts, 677P
Surface grafting, 697C
Surface layer, 1225C
Surface modification, 1725C
Surface modification of contact lenses with ethylene-vinyl alcohol copolymers, 67P
Surface orientation of liquid crystalline polymer from polarized reflection spectra, 1321P
Surface properties of undecyl oxazoline block and homopolymers, 773P
Surfactants, 233C
Swelling of nylon 6 in D_2O, SANS and SAXS study of, 509P
Syndiospecific polymerization of styrene, 1243C
Syndiospecific polymerization, of styrene, 1253C
Syndiotactic polypropylene, 1649P
Synthesis, 897C, 1465C, 1623C, 1889C

Tacticities, 1779C
Taft's equation, 1991C
Tapered block copolymers, 1107C
TDMF method, 777C
Tearing of high density polyethylene, 785P
Telecheic polymer, 875C
Terminal group, 1271C
tert-alkyl chlorides, 317C
4-*tert*-butyl-2,6-dimethylphenol, 63C
tert-chloride-terminated polyisobutylene system, 317C
Tetrabenzyl titanium/methylaluminoxane catalyst, 1243C
Tetrahydrofuran, 1421C
1,3,5,7,-Tetramethylcyclotetrasiloxane, 1073C
Tetraphenylfurandiol, 1293C
Tetraphenylpyrrole-containing aromatic polyamides, 767C
Tetraphenylpyrrolediamine, 767C, 1691C
Thermal analysis, 749C
Thermal behavior, 1293C, 1691C, 1941C
Thermal characterization, 897C
Thermal degradation mechanism, 1903C
Thermal degradation of polymers, multistage, methodology for, 601P
Thermal diffusivity of filler-polyimide composites, flash radiometry of, 1085P
Thermal latent initiator, 1675C
Thermal oxidation and morphology of HDPE, 795P
Thermal stability, 1191C
Thermally latent initiator, 1089C
Thermally stable polymers, 1483C
Thermoacoustic study of epoxy resin cure, 1081P
Thermodynamic functions of linear aliphatic polyesters, 1107P
Thermodynamics of complexation of linear macromolecules with free and grafted oligomers, 211P
Thermodynamics of polymer solutions, improvement in, Flory equation of, state for, 1P
Thermodynamics of polymerization, 1825C
Thermogravimetric analysis, 1751C
Thermogravimetry, 929C, 1039C
Thermo-oxidation, 1225C
Thermoplastic elastomers, 427C
Thermoplastics, 1667C
Thermosets, curing of, Brillouin scattering study of, 723P
Thermotropic copolyesters, 1015C
Thermotropic liquid, 1447C
Thermotropic liquid crystalline polymer, 361C
Thermotropic polyesters, 1015C
Thin films, 1801C
Thiocarbonohydrazones, 261C

Synthesis of Poly(benzylidene Phthalide)s: A New Class of Polymers
P. E. Cassidy, C. G. Johnson, C. J. Neef, I. Jhingree, and T. M. Aminabhavi 1313

Water Soluble Photoinitiators: Primary Processes in Hydroxy Alkyl Phenyl Ketones
J.-P. Fouassier, D. Burr, and F. Wieder 1319

Terminal Anhydride Functionalization of Polystyrene
I. Park, J. W. Barlow, and D. R. Paul 1329

Preparation and Photochemistry of Macromolecular Bound Ruthenium (II) Complexes in Aqueous Solutions
R. Ramaraj and P. Natarajan 1339

Synthesis and NMR Study of Amide and Imide Derivatives of PMR-15 Monomeric Units
A. Milhourat-Hammadi, H. Chayrigues, R. Levoy, C. Merienne, and A. Gaudemer 1347

Communication

Acid Effect on Oxidative Polymerization of Diphenyl Disulfide with DDQ
K. Yamamoto, M. Jikei, K. Oi, H. Nishide, and E. Tsuchida 1359

Book Reviews 1365

Issue 10, September 1991

Synthesis and Characterization of Phosphorylated Polystyrene Derivatives for Use in Chromatography: DNA-like and Phospholipid-like Behavior
D. Letourneur, C. Douzon, and M. Jozefowicz 1367

Copolymers of Pyrrole and Bithiophene by Oxidative Electropolymerization
E. M. Peters and J. D. Van Dyke 1379

Substituted Rod-like Aromatic Polyamides: Synthesis and Structure-Property Relations
W. Hatke, H.-W. Schmidt, and W. Heitz 1387

Side Chain Liquid Crystalline Polymers with Silphenylene-Siloxane Main Chains. I. Synthesis of Silphenylene-Siloxane Polymers Containing Hydrosilane Units
M. Itoh and R. W. Lenz 1399

Side-Chain Liquid Crystalline Polymers with Silphenylene-Siloxane Main Chains. II. Preparation and Characterization of Polymers Containing Biphenyl Mesogens
M. Itoh and R. W. Lenz 1407

Coordination Copolymerization of Tetrahydrofuran and Oxepane with Oxetanes and Epoxides
E. J. Vandenberg and J. C. Mullis 1421

Cationic Polymerization of Styrenes by Activated Covalent Species. Direct ^{1}H-NMR Observation of Complexes of 1-Phenylethyl Acetates with Lewis Acids
K. Matyjaszewski and C.-H. Lin 1439

Studies on the Thermotropic Liquid Crystalline Polymer. VI. Synthesis and Properties of Homo- and Co-Poly(amide-Azomethine-Ether)
C.-H. Li, K.-Y. Hsu, and T.-C. Chang 1447

Optically Active Polymers Containing Side-Chain Photochromic Moieties. Synthesis and Chiroptical Properties of Copolymers of *trans-N*(4-Azobenzene)-Maleimide with (—)-Menthyl Vinyl Ether and (+)(S)-2-Methylbutyl Vinyl Ether
L. Angiolini and C. Carlini 1455

Solvent Effects, Species and Extraction Method Effects, and Coinitiator Effects in the Grafting of Lignin
J. J. Meister, A. Lathia, and F.-F. Chang 1465

Copolymerization of Styrene Oxide and Cyclohexene Oxide
W. M. Pasika and D. J. Chen 1475

Polyimides Containing Carbonyl and Ether Connecting Groups. III
P. M. Hergenrother, M. W. Beltz, and S. J. Havens 1483

Kinetic Studies on Light-Induced Cationic Ring-Opening Reactions on 2,3-Epoxypropyl Phenyl Ether
A. G. Rajendran and H.-J. Timpe 1491

Synthesis of Organotin Polymers from Diallylidenepentaerithritol (DAPE) and Organotin Monohydrides Having an Alkenyl Substituent
O. Moriya, Y. Urata, and T. Endo 1501

Polymerization of Coordinated Monomers. XX. *Ab Initio* Molecular Orbital Study on the Binary Molecular Complex Composed of Methyl Methacrylate and Boron Trichloride
K. Sato and H. Hirai 1507

On Amide Exchange Reaction of Polyimide Precursor
M. Hasegawa, Y. Shindo, T. Sugimura, K. Horie, R. Yokota, and I. Mita 1515

Errata 1523

Issue 11, October 1991

Photo-Redox Induced Cationic Polymerization of Divinyl Ethers
P.-E. Sundell, S. Jönsson, and A. Hult 1525

Thermally Induced Cationic Polymerization of Divinyl Ethers Using Iodonium and Sulfonium Salts
P.-E. Sundell, S. Jönsson, and A. Hult 1535

Cyclotrimerization of Aryl Isocyanates Catalyzed by Alkoxyallenes through Zwitterionic Mechanism
J. Mizuya, T. Yokozawa, and T. Endo 1545

Semicontinuous Emulsion Copolymerization of Methyl Methacrylate and Ethyl Acrylate
G. Arzamendi, J. R. Leiza, and J. M. Asua 1549

Synthesis and Characterization of Polymers Produced by Horseradish Peroxidase in Dioxane
J. A. Akkara, K. J. Senecal, and D. L. Kaplan 1561

Initiation and Termination Mechanisms in Kinetic Gelation Simulations
C. N. Bowman and N. A. Peppas 1575

Olefin Copolymerization with Metallocene Catalysts. I. Comparison of Catalysts
J. C. W. Chien and D. He 1585

Olefin Copolymerization with Metallocene Catalysts. II. Kinetics, Cocatalyst, and Additives
J. C. W. Chien and D. He 1595

Olefin Copolymerization with Metallocene Catalysts. III. Supported Metallocene/Methylaluminoxane Catalyst for Olefin Copolymerization
J. C. W. Chien and D. He 1603

Olefin Copolymerization with Metallocene Catalysts. IV. Metallocene/Methylaluminoxane Catalyzed Olefin Terpolymerization
J. C. W. Chien and D. He 1609

Molecular Engineering of Liquid Crystal Polymers by Living Polymerization. XI. Synthesis and Characterization of Poly{11-[(4-Cyano-4′-*trans*-α-Cyanostilbene)oxy]undecanyl Vinyl Ether}
V. Percec, A. De Souza Gomes, and M. Lee 1615

Poly[4-*N*-Ethylene-*N*-Ethylamino)-α-Cyanocinnamate]: A Nonlinear Optical Polymer with a Chromophoric Mainchain. I. Synthesis and Spectral Characterization
J. D. Stenger-Smith, J. W. Fischer, R. A. Henry, J. M. Hoover, M. P. Nadler, R. A. Nissan, and G. A. Lindsay 1623

2,5-Dimethoxy- and 2,5-Di-*n*-Butoxy-1,4-Benzoquinone Reactions and Polymerization with 1,6-Hexanediamine
R. F. Colletti, M. J. Stewart, A. E. Taylor, N. J. MacNeill, and L. J. Mathias 1633

Influence of Allyl Ethers in Coating Resins
M. Johansson and A. Hult 1639

Separation of Metal Alginate Ionotropic Gels to Polymembranes with Special Evidence on the Position of Chelation in Copper Alginate Complex
R. M. Hassan, A. Awad, and A. Hassan 1645

Mechanisms and Kinetics of the Polymerization of Thermoplastic Polyimides. I. Study of the Pyromellitic Anhydride/Aromatic Amine System
M.-F. Grenier-Loustalot, F. Joubert, and P. Grenier 1649

Free-Radical Distributions in Emulsion Polymerization Which Employs Oil-Soluble Radical Generators
B. W. Brooks 1661

Synthesis and Characterization of Poly(arylene Ether Imidazole)s
J. W. Connell and P. M. Hergenrother 1667

Novel Benzyl Sulfonium Salt Having an Aromatic Group on Sulfur Atom as a Latent Thermal Initiator
F. Hamazu, S. Akashi, T. Koizumi, T. Takata, and T. Endo 1675

Issue 12, November 1991

Silicone Polycarbonates from New Aryl-Terminated Siloxane Precursors
P. J. McDermott, T. E. Krafft, and J. D. Rich 1681

Synthesis and Characterization of New Soluble Aromatic Polyimides from 3,4-Bis(4-Aminophenyl)-2,5-Diphenylpyrrole and Aromatic Tetracarboxylic Dianhydrides
H.-J. Jeong, M.-A. Kakimoto, and Y. Imai 1691

Synthesis of Substituted Polymethylenes by Radical Polymerization of *N,N,N,'N'*-Tetraalkylfumaramides and Their Characterization
A. Matsumoto, K. Fukushima, and T. Otsu 1697

Synthesis of Substituted Polymethylenes by Radical Polymerization of Alkyl *N,N*-Dialkylfumaramates and Maleamates: Relative Reactivity of the Isomers
A. Matsumoto, R. Kotaki, and T. Otsu 1707

Preparation of Ultrathin Films of Aromatic Polyimides by Vapor Deposition of Polymerization from *N*-Silylated Aromatic Diamines or Aromatic Tetracarboxylic Dithioanhydride
M. Iijima, Y. Takahashi, Y. Oishi, M.-A. Kakimoto, and Y. Imai 1717

Synthesis and Characterization of SPUU-PEO-Heparin Graft Copolymers
K. D. Park, A. Z. Piao, H. Jacobs, T. Okano, and S. W. Kim 1725

Photochemistry of Macromolecular Metal Complexes. II. Synthesis, Thermal, and Photochemistry of Some Polypyridyl Complexes of Chromium(III) Bound to Macromolecules
K. Anbalagan and P. Natarajan 1739

New Polymer Syntheses. 60. Thermostable Polymers of 2-(Hydroxyaryl) benzoxazole-5-Carboxylic Acids
H. R. Kricheldorf and S. A. Thomsen 1751

Hydroxy-Terminated Poly(ϵ-Caprolactone-co-δ-Valerolactone) Oligomers: Synthesis, Characterization, and Polyurethane Network Formation
R. F. Storey, K. R. Herring, and D. C. Hoffman 1759

Polymerization of α-Methyleneindane: A Cyclic Analog of α-Methylstyrene
M. Ueda, M. Mano, H. Mori, and H. Ito 1779

Synthesis of Aromatic Polyethers by Scholl Reaction. V. Synthesis and Polymerization of 1,3-Bis[4-(1-Naphthoxy)benzoyl]benzene, 1,4-Bis[4-1-Naphthoxy)benzoyl]benzene, Bis[4-(1-Naphthoxy)phenyl]methane, 1,3-Bis[4-(1-Naphthoxy)phenylmethyl]benzene, and 1,4-Bis-[4-(1-Naphthoxy)phenylmethyl]benzene
V. Percec, J. H. Wang, and S. Okita 1789

Characterization of Plasma Polymerized Hydrocarbons Using CP-MAS ^{13}C-NMR
R. J. Gambogi, D. L. Cho, H. Yasuda, and F. D. Blum 1801

Solvay Type VCl_3 Isospecific Catalysts
T. Nozaki and J. C. W. Chien 1807

Communications

MNDO-Studies on Electro-Optical Properties of Liquid Crystalline Side Chain Polymers
K. W. Budesheim and J. H. Wendorff 1819

The Change of Sign of ΔH^0_{ss} and ΔS^0_{ss} in Passing from Bulk to Solution in the Polymerization of Cyclic Monomers with Low Strain: Polymerization of 2-Hydro-2-Oxo-1,3,2-Dioxaphosphorinane
K. Kaluzynski, R. Szymanski, and S. Penczek 1825

Radiation-Induced Polymerization of Butadiene Sulfone
B. Hacioglu, S. P. Aybar, U. Akbulut, and L. K. Toppare 1829

Book Reviews 1833

Issue 13, December 1991

Polymerization and Copolymerization of α-Alkylacrylic Acids and Characterization of Their Polymers
J.-S. Cheng, B. Yamada, and T. Otsu 1837

Synthesis and Activity of Aryl Benzyl Methyl Sulfonium Salts as Cationic Initiators: Effect of Substituent on Aryl Group
F. Hamazu, S. Akashi, T. Koizumi, T. Takata, and T. Endo 1845

Novel Platinum-Containing Initiators for Ring-Opening Polymerizations
J. V. Crivello and M. Fan 1853

Mesomorphic Polyacrylates Containing Isomeric Methyl-Substituted Azobenzene Mesogens
A. S. Angeloni, D. Caretti, M. Laus, E. Chiellini, and G. Galli 1865

Synthesis of Polymer Containing *o*-Nitrobenzyl Ether Structure in the Main Chain
T. Iizawa, H. Kudou, and T. Nishikubo 1875

Synthesis of Monomers Containing Guanine or Guanine Precursors as Substituent Groups
I. Toucet and M. A. Aponte 1883

Sorption and transport of methane and 1-butene in PVC, 1069P
Sorption of argon in poly(ethyl methacrylate), 225P
Sorption of CO_2 and CH_4 in polyimides, 341P
Sorption of CO_2 in annealed polyimide, 11P
Sorption of CO_2 in silicone elastomer, nitrile rubber and PTFE, 989P
Sorption of methanol in PMMA, 1457P
Sorption of polymer liquids in crosslinked polymers, effect of stressed on, 1313P
Sorption of water vapor in polyimides, 87P
Spacer effects in side chain LCPs, 1399C, 1407C
Specific volume in cooling epoxy resin, 39P
Spectra of dyes, absorption and emission, influence of polymers binding on, 1397P
Spectral characterization, 1623C
Spherulitic morphology in thermal oxidation of HDPE, 795P
Spin trapping, 637C
Spiro ortho ester, 1151C
Staining with osmium tetraoxide as investigative technique in rubber-modified polymers, 1623P
Starch in polyethylene blends, accessibility of, 565P
Statistical design, 1053C
Statistical mechanics of complexation of macromolecules with oligomers, 211P
Statistical theory of multi-stage development of networks, 463P
Stereochemistry, 599C
Steric effect, 1837C, 1991C
Steric hindrance, 637C
Stress distribution in composites, interfacial effects on, 235P
Stress relaxation, general constitutive equation for, 537P
Stress-strain in bimodal elastomeric networks, 355P
Structural recovery behavior, of glass, 1303P
Structure, 1465C
Structure and axial symmetry of fibers, 883P
Structure–property relations, 1387C
Styrene, 9C, 29C, 421C, 1231C, 1243C, 1253C
Styrene emulsion polymerizations, 515C
Styrene oxide, 1475C
Styrene-butadiene, 1183C
Styrene-butadiene copolymers, hydroformylation, 629C
—, hydroxymethylation, 629C
Styrene-butadiene-styrene, 1183C
Styrene-isoprene block copolymers, 1107C
Styrene-methyl methacrylate, emulsion copolymerization of, 483P
Styrenes, 933C, 1439C
Styrylpyridine based polyesters, polyurethanes, epoxy resin, 881C
Styrylpyridine prepolymers, 411C
Substituted polymethylene, 1697C, 1707C
Sulfonated amino-formaldehyde resins, 525C
Sulfonation, of alkyl chlorides, 317C
Sulfonium salt, 1089C, 1845C
Sulfonyldianilines, 1175C
Sulfur atom, 295C
Sulfur dioxide, 1829C
Supportal zirconocene catalyst, 1603C
Surface force apparatus for study of polymer solutions or melts, 677P
Surface grafting, 697C
Surface layer, 1225C
Surface modification, 1725C
Surface modification of contact lenses with ethylene-vinyl alcohol copolymers, 67P
Surface orientation of liquid crystalline polymer from polarized reflection spectra, 1321P
Surface properties of undecyl oxazoline block and homopolymers, 773P
Surfactants, 233C
Swelling of nylon 6 in D_2O, SANS and SAXS study of, 509P
Syndiospecific polymerization of styrene, 1243C
Syndiospecific polymerization, of styrene, 1253C
Syndiotactic polypropylene, 1649P
Synthesis, 897C, 1465C, 1623C, 1889C

Tacticities, 1779C
Taft's equation, 1991C
Tapered block copolymers, 1107C
TDMF method, 777C
Tearing of high density polyethylene, 785P
Telecheic polymer, 875C
Terminal group, 1271C
tert-alkyl chlorides, 317C
4-*tert*-butyl-2,6-dimethylphenol, 63C
tert-chloride-terminated polyisobutylene system, 317C
Tetrabenzyl titanium/methylaluminoxane catalyst, 1243C
Tetrahydrofuran, 1421C
1,3,5,7,-Tetramethylcyclotetrasiloxane, 1073C
Tetraphenylfurandiol, 1293C
Tetraphenylpyrrole-containing aromatic polyamides, 767C
Tetraphenylpyrrolediamine, 767C, 1691C
Thermal analysis, 749C
Thermal behavior, 1293C, 1691C, 1941C
Thermal characterization, 897C
Thermal degradation mechanism, 1903C
Thermal degradation of polymers, multistage, methodology for, 601P
Thermal diffusivity of filler-polyimide composites, flash radiometry of, 1085P
Thermal latent initiator, 1675C
Thermal oxidation and morphology of HDPE, 795P
Thermal stability, 1191C
Thermally latent initiator, 1089C
Thermally stable polymers, 1483C
Thermoacoustic study of epoxy resin cure, 1081P
Thermodynamic functions of linear aliphatic polyesters, 1107P
Thermodynamics of complexation of linear macromolecules with free and grafted oligomers, 211P
Thermodynamics of polymer solutions, improvement in, Flory equation of, state for, 1P
Thermodynamics of polymerization, 1825C
Thermogravimetric analysis, 1751C
Thermogravimetry, 929C, 1039C
Thermo-oxidation, 1225C
Thermoplastic elastomers, 427C
Thermoplastics, 1667C
Thermosets, curing of, Brillouin scattering study of, 723P
Thermotropic copolyesters, 1015C
Thermotropic liquid, 1447C
Thermotropic liquid crystalline polymer, 361C
Thermotropic polyesters, 1015C
Thin films, 1801C
Thiocarbonohydrazones, 261C

The index and/or table of contents has been removed and photographed separately within this volume year.

For roll film users, this information for the current volume year is at the beginning of the microfilm. For a prior year volume, this information is at the end of the microfilm.

For microfiche users, the index and/or contents is contained on a separate fiche.

Journal of
Polymer Science

Combined Author Index to Volume 29

This index covers the Polymer Chemistry and Polymer Physics Editions of the *Journal of Polymer Science*, Vol. 29, 1991. The Edition in which an item appears is indicated by a C or P, respectively, following the page number.

Abe, Y. See Gunji, T., 941C
Abhiraman, A. S. See Tzou, D. L., 49P
Adduci, J. M.
—; Rochanapruk, T.: Synthesis and Characterization of Random Poly(amide-Sulfonamide)s. II. Polymers from Unsymmetrical Diamine Monomers, 453C
Adolph, H. G.
—; Nock, L. A.; Goldwasser, J. M.; Farncomb, R. E.: Nitro- and Fluoropolyformals. II. Novel Polyformals from α, ω-Fluoro- and Nitrodiols, 719C
Adolph, H. G. See Nock, L. A., 1133C
Ahuja, S. See Harrell, J. W. Jr., 1039P
Ait-Kadi, A. See Brahimi, B., 945P
Ajji, A.
—; Choplin, L.; Prud'homme, R. E.: Rheology of Polystyrene/Poly(vinyl methyl ether) Blends Near the Phase Transition, 1573P
Ajji, A. See Brahimi, B., 945P
Ajroldi, G. See Villani, V., 1255P
Akagi, K. See Tanabe, Y., 501P
Akashi, S. See Hamazu, F., 1675C, 1845C
Akbulut, U.
—; Hacioglu, B.: Electroinitiated Polymerization of Maleic Anhydride by Direct Electron Transfer, 219C
Akbulut, U. See Aybar, S. P., 1971C; Hacioglu, B., 1829C
Akitomo, Y. See Kaji, A., 1987C
Akkara, J. A.
—; Senecal, K. J.; Kaplan, D. L.: Synthesis and Characterization of Polymers Produced by Horseradish Peroxidase in Dioxane, 1561C
Aklonis, J. L. See Ding, Z. Y., 1035P
Alduncin, J. A.
—; Forcada, J.; Barandiaran, M. J.; Asua, J. M.: On the Main Locus of Radical Formation in Emulsion Polymerization Initiated by Oil-Soluble Initiators, 1265C
Allen, T. C. See Liu, C.-K., 181P
Aminabhavi, T. M. See Cassidy, P. E., 1313C
Anbalagan, K.
—; Natarajan, P.: Photochemistry of Macromolecular Metal Complexes. II. Synthesis, Thermal, and Photochemistry of Some Polypyridyl Complexes of Chromium(III) Bound to Macromolecules, 1739C
Ando, I. See Kubo, K., 57P; Ohta, H., 963P
Angeloni, A. S.
—; Caretti, D.; Laus, M.; Chiellini, E.; Galli, G.: Mesomorphic Polyacrylates Containing Isomeric Methyl-Substituted Azobenzene Mesogens, 1865C
Angiolini, L.
—; Carlini, C.: Optically Active Polymers Containing Side-Chain Photochromic Moieties. Synthesis and Chiroptical Properties of Copolymers of *trans-N*(4-Azobenzene)-Maleimide with (−)-Menthyl Vinyl Ether and (+)(S)-2-Methylbutyl Vinyl Ether, 1455C
Annis, B. K. See Wignall, G. D., 349P
Aponte, M. A. See Toucet, I., 1883C
Arm, D. M. See Richards, M., 1157C
Arzamendi, G.
—; Leiza, J. R.; Asua, J. M.: Semicontinuous Emulsion Copolymerization of Methyl Methacrylate and Ethyl Acrylate, 1549C
Arzamendi, G. See Urquiola, B., 169C
Asakura, T. See Hatada, K., 287C
Asano, T. See Santa Cruz, C., 819P
Asanuma, T. See Chatani, Y., 1649P
Asua, J. M. See Alduncin, J. A., 1265C; Arzamendi, G., 1549C; de la Cal, J. C., 155C; Forcada, J., 1231C; Rodriguez, V. S., 483P; Urquiola, B., 169C
Atalla, R. H. See Isogai, A., 113C
Awad, A. See Hassan, R. M., 1645C
Aybar, S. P.
—; Hacioglu, B.; Akbulut, U.: Electroinitiated Polymerization of Butadiene Sulfone, 1971C
Aybar, S. P. See Hacioglu, B., 1829C

Babu, S. V. See Ramesh, N. S., 1031P
Bai, S. J.
—; Dotrong, M.; Soloski, E. J.; Evers, R. C.: Characterization, Processing, and Properties of an Aromatic Poly(ether ketone), 119P
Baier, R. E. See Vargo, T. G., 535C, 555C
Bailey, W. J.
—; Zheng, Z.-F.: Synthesis and Double Ring-Opening Polymerization of Cyclic Ketals of γ-Methylenelactones, 437C
Baldrian, J. See Pleštil, J., 509P
Baldwin, L. J. See Waters, J. F., 1917C
Baltá Calleja, F. J. See Santa Cruz, C., 819P
Bánhegyi, G. See Liang, K., 649P
Barandiaran, M. J. See Alduncin, J. A., 1265C
Barley, J. S. See Cheng, S. Z. D., 515P

Journal of
Polymer Science

Combined Author Index to Volume 29

This index covers the Polymer Chemistry and Polymer Physics Editions of the *Journal of Polymer Science*, Vol. 29, 1991. The Edition in which an item appears is indicated by a C or P, respectively, following the page number.

Abe, Y. See Gunji, T., 941C
Abhiraman, A. S. See Tzou, D. L., 49P
Adduci, J. M.
—; Rochanapruk, T.: Synthesis and Characterization of Random Poly(amide-Sulfonamide)s. II. Polymers from Unsymmetrical Diamine Monomers, 453C
Adolph, H. G.
—; Nock, L. A.; Goldwasser, J. M.; Farncomb, R. E.: Nitro- and Fluoropolyformals. II. Novel Polyformals from α, ω-Fluoro- and Nitrodiols, 719C
Adolph, H. G. See Nock, L. A., 1133C
Ahuja, S. See Harrell, J. W. Jr., 1039P
Ait-Kadi, A. See Brahimi, B., 945P
Ajji, A.
—; Choplin, L.; Prud'homme, R. E.: Rheology of Polystyrene/Poly(vinyl methyl ether) Blends Near the Phase Transition, 1573P
Ajji, A. See Brahimi, B., 945P
Ajroldi, G. See Villani, V., 1255P
Akagi, K. See Tanabe, Y., 501P
Akashi, S. See Hamazu, F., 1675C, 1845C
Akbulut, U.
—; Hacioglu, B.: Electroinitiated Polymerization of Maleic Anhydride by Direct Electron Transfer, 219C
Akbulut, U. See Aybar, S. P., 1971C; Hacioglu, B., 1829C
Akitomo, Y. See Kaji, A., 1987C
Akkara, J. A.
—; Senecal, K. J.; Kaplan, D. L.: Synthesis and Characterization of Polymers Produced by Horseradish Peroxidase in Dioxane, 1561C
Aklonis, J. L. See Ding, Z. Y., 1035P
Alduncin, J. A.
—; Forcada, J.; Barandiaran, M. J.; Asua, J. M.: On the Main Locus of Radical Formation in Emulsion Polymerization Initiated by Oil-Soluble Initiators, 1265C
Allen, T. C. See Liu, C.-K., 181P
Aminabhavi, T. M. See Cassidy, P. E., 1313C
Anbalagan, K.
—; Natarajan, P.: Photochemistry of Macromolecular Metal Complexes. II. Synthesis, Thermal, and Photochemistry of Some Polypyridyl Complexes of Chromium(III) Bound to Macromolecules, 1739C
Ando, I. See Kubo, K., 57P; Ohta, H., 963P
Angeloni, A. S.
—; Caretti, D.; Laus, M.; Chiellini, E.; Galli, G.: Mesomorphic Polyacrylates Containing Isomeric Methyl-Substituted Azobenzene Mesogens, 1865C
Angiolini, L.
—; Carlini, C.: Optically Active Polymers Containing Side-Chain Photochromic Moieties. Synthesis and Chiroptical Properties of Copolymers of *trans*-*N*(4-Azobenzene)-Maleimide with (−)-Menthyl Vinyl Ether and (+)(S)-2-Methylbutyl Vinyl Ether, 1455C
Annis, B. K. See Wignall, G. D., 349P
Aponte, M. A. See Toucet, I., 1883C
Arm, D. M. See Richards, M., 1157C
Arzamendi, G.
—; Leiza, J. R.; Asua, J. M.: Semicontinuous Emulsion Copolymerization of Methyl Methacrylate and Ethyl Acrylate, 1549C
Arzamendi, G. See Urquiola, B., 169C
Asakura, T. See Hatada, K., 287C
Asano, T. See Santa Cruz, C., 819P
Asanuma, T. See Chatani, Y., 1649P
Asua, J. M. See Alduncin, J. A., 1265C; Arzamendi, G., 1549C; de la Cal, J. C., 155C; Forcada, J., 1231C; Rodriguez, V. S., 483P; Urquiola, B., 169C
Atalla, R. H. See Isogai, A., 113C
Awad, A. See Hassan, R. M., 1645C
Aybar, S. P.
—; Hacioglu, B.; Akbulut, U.: Electroinitiated Polymerization of Butadiene Sulfone, 1971C
Aybar, S. P. See Hacioglu, B., 1829C

Babu, S. V. See Ramesh, N. S., 1031P
Bai, S. J.
—; Dotrong, M.; Soloski, E. J.; Evers, R. C.: Characterization, Processing, and Properties of an Aromatic Poly(ether ketone), 119P
Baier, R. E. See Vargo, T. G., 535C, 555C
Bailey, W. J.
—; Zheng, Z.-F.: Synthesis and Double Ring-Opening Polymerization of Cyclic Ketals of γ-Methylenelactones, 437C
Baldrian, J. See Pleštil, J., 509P
Baldwin, L. J. See Waters, J. F., 1917C
Baltá Calleja, F. J. See Santa Cruz, C., 819P
Bánhegyi, G. See Liang, K., 649P
Barandiaran, M. J. See Alduncin, J. A., 1265C
Barley, J. S. See Cheng, S. Z. D., 515P

Barlow, J. W. See Brannock, G. R., 413P; Park, I., 1329C
Barton, R., Jr. See Hristov, H. A., 883P
Bazuin, C. G. See Neagu-Plesu, R., 1305P
Belcadi, S. See Elmidaoui, A., 705P
Belfield, K. D.
—; Cabasso, I.; Lin, X. Z.: Hydrosilylation of α,β-Unsaturated Esters: Application for the Synthesis of Functional Polysiloxane Graft Copolymers and Macromonomers, 1073C
Bell, J. L. See Yang, C.-Z., 581P
Beltz, M. W. See Hergenrother, P. M., 1483C
Bendaikha, T. See Decker, C., 739C
Bendler, J. T. See Cain, E. J., 1009P
Benvenuti, M.
—; Lenz, R. W.: Polymerization and Copolymerization of β-Butyrolactone and Benzyl-β-Malolactonate by Aluminoxane Catalysts, 793C
Berghmans, H. See Stoks, W., 609P
Bero, C. A.
—; Plazek, D. J.: Volume-Dependent Rate Processes in an Epoxy Resin, 39P
Best, M. E. See Moylan, C. R., 87P, 771P
Bezzabotnov, V. Y. See Pleštil, J., 509P
Bhagwagar, D. E.
—; Painter, P. C.; Coleman, M. M.; Krizan, T. D.: Mapping the Phase Diagram of an Aromatic Polyamide Blend Using Infrared Spectroscopy, 1547P
Bicerano, J.
A Model for Dynamic Relaxations in Amorphous Polymers. I. Conceptual Framework, Formal Implementation of Simplest Version, and Application to Poly(ester carbonates), 1329P
A Model for Dynamic Relaxations in Amorphous Polymers. II. Extensions and Generalizations of Formalism and Application to Poly(methacrylates), 1345P
Biedron, T.
—; Kubisa, P.; Penczek, S.: Polyepichlorohydrin Diols Free of Cyclics: Synthesis and Characterization, 619C
Bigger, S. W. See Scheirs, J., 795P
Blum, F. D. See Gambogi, R. J., 1801C
Bogoeva-Catseva, G.
—; Pimonenko, N. Y.; Gabrielyan, G. A.; Fazlyev, F. A.; Gal'braikh, L. S.: Studies of Structure Formation in Grafting of Polyacrylonitrile to Polycaproamide Fibers, 907P
Booth, C. See Campbell, C., 1613P; Viras, F., 1467P
Borissov, G. See Todorova, O. G., 889C
Bornmann, J. A. See Wolf, C. J., 1533P
Bosch, P. See Mateo, J. L., 1955C
Bourbon, D. See Kamiya, Y., 225P
Boutevin, B. See Elmidaoui, A., 705P
Bowman, C. N.
—; Peppas, N. A.: Initiation and Termination Mechanisms in Kinetic Gelation Simulations, 1575C
Brahimi, B.
—; Ait-Kadi, A.; Ajji, A.; Fayt, R.: Effect of Diblock Copolymers on Dynamic Mechanical Properties of Polyethylene/Polystyrene Blends, 945P
Brannock, G. R.
—; Barlow, J. W.; Paul, D. R.: Blends of Styrene/Maleic Anhydride Copolymers with Polymethacrylates, 413P
Brar, A. S. See Kapur, G. S., 479C
Bresci, B. See Vittoria, V., 1163P
Brett, A. M. O. See da Silva, M. A., 269C, 275C
Briscoe, B. J.
—; Zakaria, S.: Interaction of CO_2 Gas with Silicone Elastomer at High Ambient Pressures, 989P
Brooks, B. W.
Free-Radical Distributions in Emulsion Polymerization Which Employs Oil-Soluble Radical Generators, 1661C
Brown, H. R. See Leonov, A. I., 197P
Brown, N. See Huang, Y.-L., 129P
Bu, H.
—; Pang, Y.; Song, D.; Yu, T.; Voll, T. M.; Czornyj, G.; Wunderlich, B.: Single-Molecule Single Crystals, 139P
Bubeck, R. A. See Schroeder, J. R., 1607P
Büchtemann, A.
—; Schmolke, R.: Infrared Spectroscopic Investigation of Poly(vinylidene fluoride) in an Electric Field, 1299P
Budd, P. M. See Raby, P., 451P
Budesheim, K. W.
—; Wendorff, J. H.: MNDO-Studies on Electro-Optical Properties of Liquid Crystalline Side Chain Polymers, 1819C
Buese, M. A. See Keohan, F. L., 303C
Burchard, W. See Denkinger, P., 589P
Burr, D. See Fouassier, J.-P., 1319C
Burton, B. L. See Sue, H. J., 1623P

Cabasso, I. See Belfield, K. D., 1073C
Cai, G.
—; Litt, M. H.; Krieger, I. M.: Surface Properties and Abhesion of Undecyl Oxazoline Block and Homopolymers, 773P
Cain, E. J.
—; Wen, W.-Y.; Jones, A. A.; Inglefield, P. T.; Cauley, B. J.; Bendler, J. T.: A Dual-Mode Interpretation of Spin Relaxation for $^{13}CO_2$ Sorbed in Polycarbonate, 1009P
Callaghan, P. See Kimmich, R., 1025P
Campbell, C.
—; Viras, K.; Booth, C.: Low-Frequency Raman-Active Modes in Methoxy-Ended and Hydroxy-Ended Oligo(oxyethylene)s, 1613P
Campbell, C. See Viras, F., 1467P
Campbell, G. A. See Ramesh, N. S., 1031P
Cao, N. See Pegoraro, M., 365P
Čapla, M. See Chodák, I., 581C
Cardoso, J.
—; Manero, O.: Thermal and Dilute-Solution Properties of Zwitterionic Copolymers, 639P
Caretti, D. See Angeloni, A. S., 1865C
Carlini, C. See Angiolini, L., 1455C
Cassidy, P. E.
—; Johnson, C. G.; Neef, C. J.; Jhingree, I.; Aminabhavi, T. M.: Synthesis of Poly(benzylidene Phthalide)s:

A New Class of Polymers, 1313C
Catalina, F. See Mateo, J. L., 1955C
Cauley, B. J. See Cain, E. J., 1009P
Chang, F.-F. See Meister, J. J., 1465C
Chang, J. W. See Schroeder, J. R., 1607P
Chang, N.-S. See Tsai, H.-B., 893P
Chang, T.-C. See Li, C.-H., 361C, 1447C
Chapman, J. N. See White, J. R., 31P
Charati, S. G.
—; Houde, A. Y.; Kulkarni, S. S.; Kulkarni, M. G.: Transport of Gases in Aromatic Polyesters: Correlation with WAXD Studies, 921P
Chatani, Y.
—; Maruyama, H.; Asanuma, T.; Shiomura, T.: Structure of a New Crystalline Phase of Syndiotactic Polypropylene, 1649P
Chay, I.-C. See Plazek, D. J., 17P
Chayrigues, H. See Milhourat-Hammadi, A., 1347C
Chen, C.-Y. See Pan, T.-C., 709C
Chen, D. J. See Pasika, W. M., 1475C
Chen, J. See Cheng, S. Z. D., 287P, 299P, 311P
Chen, M. See Yu, L., 127C
Chen, R. Y. S. See Gu, W., 1001P
Chen, S. H. See Twomey, C. J., 859P
Chen, W. A. See Greener, J., 843P
Chen, W.-P.
—; Kenney, D. J.; Frisch, K. C.; Wong, S.-W.; Moore, R.: Study of Phase Separation in Polyurethane Using Paramagnetic Labels. Effect of Soft Segment Molecular Weight, Structure, and Thermal History, 1513P
Chen, Y.-H. See Tsutsumi, N., 1963C
Cheng, J.-S.
—; Yamada, B.; Otsu, T.: Polymerization and Copolymerization of α-Alkylacrylic Acids and Characterization of Their Polymers, 1837C
Cheng, S. Z. D.
—; Barley, J. S.; von Meerwall, E. D.: Self-Diffusion of Poly(ethylene Oxide) Fractions and Its Influence on the Crystalline Texture, 515P
—; Chen, J.: Nonintegral and Integral Folding Crystal Growth in Low-Molecular Mass Poly(ethylene Oxide) Fractions. III. Linear Crystal Growth Rates and Crystal Morphology, 311P
—; Chen, J.; Zhang, A.; Heberer, D. P.: Nonintegral and Integral Folding Crystal Growth in Low-Molecular Mass Poly(ethylene Oxide) Fractions. II. End-Group Effect: α,ω-Methoxy-Poly(ethylene Oxide), 299P
—; Zhang, A.; Chen, J.; Heberer, D. P.: Nonintegral and Integral Folding Crystal Growth in Low-Molecular Mass Poly(ethylene Oxide) Fractions. I. Isothermal Lamellar Thickening and Thinning, 287P
Chern, R. T. See Gu, W., 1001P
Chiang, W.-Y.
—; Lu, J.-Y.: Preparation and Properties of Si-Containing Copolymer for Near-UV Resist. I. Poly(*N*-(4-Hydroxyphenyl)maleimide-alt-*p*-Trimethylsilylstyrene), 399C
Chiellini, E. See Angeloni, A. S., 1865C
Chien, J. C. W.
—; He, D.: Olefin Copolymerization with Metallocene Catalysts. I. Comparison of Catalysts, 1585C
—; He, D.: Olefin Copolymerization with Metallocene Catalysts. II. Kinetics, Cocatalyst, and Additives, 1595C
—; He, D.: Olefin Copolymerization with Metallocene Catalysts. III. Supported Metallocene/Methylaluminoxane Catalyst for Olefin Copolymerization, 1603C
—; He, D.: Olefin Copolymerization with Metallocene Catalysts. IV. Metallocene/Methylaluminoxane Catalyzed Olefin Terpolymerization, 1609C
—; Nozaki, T.: High Activity Magnesium Chloride Supported Catalysts for Olefin Polymerization. XXIX. Molecular Basis of Hydrogen Activation of Magnesium Chloride Supported Ziegler-Natta Catalysts, 505C
—; Salajka, Z.: Syndiospecific Polymerization of Styrene. I. Tetrabenzyl Titanium/Methylaluminoxane Catalyst, 1243C
—; Salajka, Z.: Syndiospecific Polymerization of Styrene. II. Monocyclopentadienyltributoxy Titanium/Methylaluminoxane Catalyst, 1253C
—; Sugimoto, R.: Kinetics and Stereochemical Control of Propylene Polymerization Initiated by Ethylene Bis(4,5,6,7-Tetrahydro-1-Indenyl) Zirconium Dichloride/Methyl Aluminoxane Catalyst, 459C
—; Yang, Y.; Martinez, J. R.; Dong, S.; Telluri, V.; Jakus, K.: Polymer Precursor Synthesis of Alumina Fibers, 495C
Chien, J. C. W. See Nozaki, T., 1807C
Chien, Y. Y.
—; Pearce, E. M.; Kwei, T. K.: Photooxidation of Blends of Polystyrene and Poly(vinyl Methyl Ether), 849C
Cho, D. L. See Gambogi, R. J., 1801C
Chodák, I.
—; Lazár, M.; Čapla, M.: Crosslinking of Polypropylene Initiated by Peroxide in the Presence of Thiourea as a Coagent, 581C
Choi, S.-K. See Han, Y.-K., 281C
Choplin, L. See Ajji, A., 1573P
Choudhury, M. See Harrell, J. W. Jr., 1039P
Chu, B. See Li, Y., 1309P; Wang, Z., 1361P
Chung, T.-S.
—; Vora, R. H.; Jaffe, M.: Fluoro-Containing Polyimide Blends: Prediction and Experiments, 1207C
Cifra, P.
—; Karasz, F. E.; MacKnight, W. J.: Short-Range Order in Miscible Polymer Blends: A Monte Carlo Study, 1389P
Clark, J. C. See Tsang, C. J., 247P
Clegg, D. W. See Collyer, A. A., 193C
Coleman, M. M. See Bhagwagar, D. E., 1547P
Colletti, R. F.
—; Stewart, M. J.; Taylor, A. E.; MacNeill, N. J.; Mathias,

L. J.: 2,5-Dimethoxy- and 2,5-Di-*n*-Butoxy-1,4-Benzoquinone Reactions and Polymerization with 1,6-Hexanediamine, 1633C
Collyer, A. A.
—; Clegg, D. W.; Morris, M.; Parker, D. G.; Wheatley, G. W.; Corfield, G. C.: Synthesis and Properties of Polyethersulphone-Polydimethylsiloxane Block Copolymers, 193C
Conde, L.
—; Rubio, M. A.; Fairén, V.; Riande, E.: Oscillatory Measurement of Linear Viscoelasticity: Dynamic Moduli Revisited, 1525P
Connell, J. W.
—; Hergenrother, P. M.: Synthesis and Characterization of Poly(arylene Ether Imidazole)s, 1667C
Cooke, N. E.
Mass Transfer Coupled with the Relaxation of a Polymeric Matrix: A Controlled Release Process, 1633P
Cooper, S. L. See Yang, C. Z., 75P, 581P
Corfield, G. C. See Collyer, A. A., 193C
Cormier, L. See Lucotte, G., 897C
Corradini, P. See Guerra, G., 265P
Costa, J. M. C. See da Silva, M. A., 269C
Cotts, P. M. See Kim, S. H., 109P
Coughlin, C. S. See Fontanella, J. J., 747P
Cowie, J. M. G.
—; Elexpuru, E. M.; McEwen, I. J.: Miscibility of Solution-Chlorinated Polyethylene with Poly(α-Methylstyrene-co-acrylonitrile), 407P
Crivello, J. V.
—; Fan, M.: Novel Platinum-Containing Initiators for Ring-Opening Polymerizations, 1853C
Cuculo, J. A. See de Groot, A. W., 547P, 557P
Cuculo, J. A. See Liu, C.-K., 181P
Czornyj, G. See Bu, H., 139P

da Silva, M. A.
—; Gil, M. H.; Piedade, A. P.; Redinha, J. S.; Brett, A. M. O.; Costa, J. M. C.: Immobilization of Catalase on Membranes of Poly(ethylene)-g-co-Acrylic Acid and Poly(tetrafluoro-ethylene)-g-co-Acrylic Acid and Their Application in Hydrogen Peroxide Electrochemical Sensors, 269C
—; Gil, M. H.; Redinha, J. S.; Brett, A. M. O.; Pereira, J. L. C.: Immobilization of Glucose Oxidase on Nylon Membranes and Its Application in a Flow-Through Glucose Reactor, 275C
Dahiyat, B. I. See Richards, M., 1157C
Dalton, L. R. See Yu, L., 127C
Dang, T. D. See Evers, R. C., 121C
Dawson, P. C.
—; Gilbert, M.; Maddams, W. F.: Comparison of X-Ray Diffraction and Thermal Analysis Methods for Assessing Order in Poly(vinyl chloride), 1407P
De Candia, F. See Vittoria, V., 1163P
de Groot, A. W.
—; Guinnup, D. E.; Theil, M. H.; Cuculo, J. A.: Light-Scattering Studies on Solutions of Cellulose in the Ammonia/Ammonium Thiocyanate Solvent System. I. Classical Light-Scattering, 547P
—; Guinnup, D. E.; Thiel, M. H.; Cuculo, J. A.: Light-Scattering Studies on Solutions of Cellulose in the Ammonia/Ammonium Thiocyanate Solvent System. II. Quasielastic Light-Scattering and Liquid Crystal Study, 557P
de la Cal, J. C.
—; Leiza, J. R.; Asua, J. M.: Estimation of Reactivity Ratios Using Emulsion Copolymerization Data, 155C
de Paoli, M.-A. See Peres, R. C. D., 225C
de Rosa, C. See Guerra, G., 265P
de Souza Gomes, A.
—; Percec, V.: Synthesis and Mesomorphic Behavior of Poly{1-(4-Methoxy-4'-biphenyl)-2-[4-(11-Methacryloylundecanyl-1-Oxyphenyl)] ethane} and Poly{1-[4-(11-Meth-acryloylundecanyl-1-Oxy)-4'-Biphenyl]-2-(4-Methoxyphenyl) ethane} Constitutional Isomers, 919C
De Souza Gomes, A. See Percec, V., 1615C
Decker, C.
—; Moussa, K.; Bendaikha, T.: Photodegradation of UV-Cured Coatings II. Polyurethane-Acrylate Networks, 739C
Degroot, A. W. See Liu, C.-K., 181P
Delatycki, O. See Scheirs, J., 795P
Delfort, B. See Lucotte, G., 897C
Delgado, J. See Urquiola, B., 169C
Denkinger, P.
—; Burchard, W.: Determination of Chain Stiffness and Polydispersity from Static Light-Scattering, 589P
Desal, P. See Tzou, D. L., 49P
di Landro, L. See Pegoraro, M., 365P
Diaz, A.
—; Fenzel-Alexander, D.; Wollmann, D.; Eisenberg, A.: Effect of Ionomer Ion Aggregation on Contact Charging, 1559P
Díaz-Calleja, R.
—; Riande, E.; Guzmán, J.: Effects of Orientation on the Mechanical and Dielectric Relaxation Behavior of Cycloaliphatic Polyester Networks, 93P
Dimonie, V. L. See Shen, S., 857C
Ding, Z. Y.
—; Aklonis, J. L.; Salovey, R.: Model Filled Polymers. VI. Determination of the Crosslink Density of Polymeric Beads by Swelling, 1035P
Domb, A. J.
—; Mathiowitz, E.; Ron, E.; Giannos, S.; Langer, R.: Polyanhydrides. IV. Unsaturated and Crosslinked Polyanhydrides, 571C
Donaruma, L. G.
Review of *Microbial Polyesters*, 1365C
Review of Pharmaceutical Chemicals in Perspective, 291C
Dong, S. See Chien, J. C. W., 495C
Donzelli, P. See Pegoraro, M., 365P
Dorawala, T. G. See Pasternak, M., 915C
Dotrong, M. See Bai, S. J., 119P
Douzon, C. See Letourneur, D., 1367C

Dube, M.
—; Sanayei, A.; Penlidis, A.; O'Driscoll, K. F.; Reilly, P. M.: A Microcomputer Program for Estimation of Copolymerization Reactivity Ratios, 703C
Dubrovina, L. See Velichkova, R., 1107C
Dušek, K. See Tiemersma-Thoone, G. P. J. M., 463P

Eberhardt, M. A. See Vargo, T. G., 535C
Eichinger, B. E. See Qian, C., 635P
Eisenberg, A. See Diaz, A., 1559P
El-Aasser, M. S. See Rodriguez, V. S., 483P; Shen, S., 857C; Urquiola, B., 169C
Elexpuru, E. M. See Cowie, J. M. G., 407P
Elmidaoui, A.
—; Boutevin, B.; Belcadi, S.; Gavach, C.: Synthesis and Characterization of an Amphoteric Ion-Exchange Membrane, 705P
Endo, K.
—; Fujii, K.; Otsu, T.: Steric Effects of Substituents on Polymerization Activity of Branched 1-Olefins with $TiCl_3$-$(C_2H_5)_3Al$ Catalyst, 1991C
—; Otsu, T.: Monomer-Isomerization Polymerization. XXVI. Formation of Polyallylcyclohexane from Propenylcyclohexane through Monomer-Isomerization Polymerization with Ziegler-Natta Catalysts, 643C
—; Ueda, R.; Otsu, T.: Monomer-Isomerization Polymerization. XXVIII. Catalytic Activity of Transition Metals and Alkylaluminums in Monomer-Isomerization Polymerization of 2-Butene, 807C
—; Ueda, R.; Otsu, T.: Monomer-Isomerization Polymerization. XXX. Influence of Type of $TiCl_3$ on Monomer-Isomerization Polymerization of 2-Butene with $TiCl_3$ and Alkylaluminum Catalyst, 843C
Endo, T.
—; Takada, T.; Kameyama, A.; Okawara, M.: Reduction of Methyl Benzoylformate by Dihydronicotinamide in the Presence of Polymeric Viologens as Electron Mediator, 135C
Endo, T. See Hamazu, F., 1675C, 1845C; Kikkawa, A., 1089C; Kitamura, N., 1151C; Mizuya, J., 1545C; Moriya, O., 1501C; Takata, T., 781C
Evers, R. C.
—; Dang, T. D.; Moore, D. R.: Synthesis and Characterization of Graft Copolymers of Rigid-Rod Poly(*p*-Phenylenebenzobis-imidazole), 121C
Evers, R. C. See Bai, S. J., 119P
Everson, T. P. See Peterson, J. R., 933C

Fairén, V. See Conde, L., 1525P
Fakhreddine, Y. A.
—; Zoller, P.: The Equation of State of Solid and Molten Poly(butylene terephthalate) to 300°C and 200 MPa, 1141P
Fan, C. F.
—; Waldman, D. A.; Hsu, S. L.: Interfacial Effects on Stress Distribution in Model Composites, 235P
Fan, M. See Crivello, J. V., 1853C
Farncomb, R. E. See Adolph, H. G., 719C
Fayt, R. See Brahimi, B., 945P
Fazlyev, F. A. See Bogoeva-Catseva, G., 907P
Feiring, A. E. See Percec, V., 965C
Feldman, D.
Review of *Properties of Polymers*, 1654P
Review of *Rubbery Materials and Their Compounds*, 1223C
Review of *Twin Screw Extrusion. Technology and Principles*, 1653P
Review of Elementary Polarization Spectroscopy, 261P
Review of Fire and Polymers, Hazards Identification and Prevention, 291C
Review of Fundamentals of Adhesion, 1834C
Review of International Plastics Flammability Handbook, 292C
Review of Polymer Characterization, 261P
Review of Surfactants in Solution, 261P
Fenzel-Alexander, D. See Diaz, A., 1559P
Fickes, G. N. See Miller, R. D., 813C
Fife, W. K. See Vilenchik, L. Z., 1137P
Fischer, J. W. See Stenger-Smith, J. D., 1623C
Fisher, I. See Margel, S., 347C
Fontanella, J. J.
—; Wintersgill, M. C.; Coughlin, C. S.; Mazaud, P.; Greenbaum, S. G.: Application of the Bendler-Shlesinger Generalization of the Vogel Equation to Ion-Conducting Polymers, 747P
Forcada, J.
—; Asua, J. M.: Emulsion Copolymerization of Styrene and Methyl Methacrylate. II. Molecular Weights, 1231C
Forcada, J. See Alduncin, J. A., 1265C
Fornes, R. E. See Hawkinson, D. E., 1599
Fouassier, J. P. See Manivannan, G., 1113C
Fouassier, J.-P.
—; Burr, D.; Wieder, F.: Water-Soluble Photoinitiators: Primary Processes in Hydroxy Alkyl Phenyl Ketones, 1319C
Frisch, H. L.
—; Huang, M. W.: Birefringence in Interpenetrating Polymer Networks of Poly(2,6-Dimethyl-1,4-Phenylene Dioxide)/Polydimethyl-siloxane, 131C
—; Zhou, P.; Frisch, K. C.; Xiao, X. H.; Huang, M. W.; Ghiradella, H.: Interpenetrating Polymer Networks of Poly(carbonate-Urethane) and Polymethyl Methacrylate, 1031C
Frisch, H. L. See Toscano, P. J., 1219C
Frisch, K. C.
Review of The ICI Polyurethanes Book, 1834C
Frisch, K. C. See Chen, W.-P., 1513P; Frisch, H. L., 1031C
Frontini, P. M. See Vallo, C. I., 1503P
Fujii, K. See Endo, K., 1991C
Fujishige, S. See Ohta, H., 963P
Fujita, K. See Nomura, M., 987C
Fujita, M. See Otsu, T., 837C
Fujita, S. See Nomura, M., 987C
Fukushima, K. See Matsumoto, A., 1697C
Fukutomi, T. See Ishizu, K., 607C, 923C

Gabrielyan, G. A. See Bogoeva-Catseva, G., 907P; Smirnova, N. V., 139C
Gadgil, J. M.
—; Rajan, C. R.; Ponrathnam, S.; Rajamohanan, P. R.; Ganapathy, S.: Acrolein-Acrylic Acid Copolymers: A Solid-State ^{13}C-NMR Study of Free Aldehyde Groups, 1077C
Gal'braikh, L. S. See Bogoeva-Catseva, G., 907P; Smirnova, N. V., 139C
Gallagher, G. A.
—; Jakeways, R.; Ward, I. M.: The Structure and Properties of Drawn Blends of Poly(vinylidene fluoride) and Poly(methyl methacrylate), 1147P
Galli, G. See Angeloni, A. S., 1865C
Galy, J. See Won, Y.-G., 981P
Gamboa, C. See Ríos, H. E., 805P
Gambogi, R. J.
—; Cho, D. L.; Yasuda, H.; Blum, F. D.: Characterization of Plasma Polymerized Hydrocarbons Using CP-MAS ^{13}C-NMR, 1801C
Ganapathy, S. See Gadgil, J. M., 1077C
Garcia-Meitin, E. I. See Sue, H. J., 1623P
Gardella, J. A., Jr. See Vargo, T. G., 535C, 555C
Gardette, J.-L. See Jouan, X., 685C
Gardin, G. P. See Judge, M. D., 1203C
Garrison, C. C. See Sue, H. J., 1623P
Gaudemer, A. See Milhourat-Hammadi, A., 1347C
Gaudiana, R. A.
—; Sinta, R. F.: Infrared Spectral Study of Noncrystalline Rodlike Polymers, 45C
Gavach, C. See Elmidaoui, A., 705P
Gehoh, M. See Takahashi, Y., 889P
Gent, A. N.
—; Liu, G. L.: Diffusion of Polymer Molecules into Polymer Networks: Effect of Stresses and Constraints, 1313P
Georges, J. M. See Montfort, J. P., 677P
Gerrits, N. S. J. A.
—; Young, R. J.: Deformation Mechanisms in Biaxially Drawn Polyethylene, 825P
Getova, C. See Velichkova, R., 1107C
Ghiggino, K. P. See Smit, K. J., 1397P
Ghiradella, H. See Frisch, H. L., 1031C
Giannos, S. See Domb, A. J., 571C
Gil, M. H. See da Silva, M. A., 269C, 275C
Gilbert, A. See Whitcombe, M. J., 251C
Gilbert, M. See Dawson, P. C., 1407P
Gilbert, R. D. See Hawkinson, D. E., 1599
Gilbert, R. G. See Pearson, L. T., 515C
Gitsov, I. See Todorova, O. G., 889C
Gladkova, E. See Velichkova, R., 1107C
Goh, S. H. See Lee, C. S., 1889C
Goldwasser, J. M. See Adolph, H. G., 719C; Nock, L. A., 1133C
Gordon, M. See Tiemersma-Thoone, G. P. J. M., 463P
Grasel, T. G. See Yang, C.-Z., 581P
Gray, F. M.
An Interpretation of Raman Spectral Data for Polymer Electrolytes in the Light of New Evidence for Ion Association in Dilute Solution, 1441P
Grayson, M. A. See Wolf, C. J., 1533P
Greber, G.
Review of *Vogel's Textbook of Practical Organic Chemistry (5th ed.)*, 1223C
Greenbaum, S. G. See Fontanella, J. J., 747P
Greener, J.
—; Tsou, A. H.; Ng, K. C.; Chen, W. A.: The Bending Recovery of Polymer Films. I. A Phenomenological Model, 843P
Grenier, P. See Grenier-Loustalot, M.-F., 1649C
Grenier-Loustalot, M.-F.
—; Joubert, F.; Grenier, P.: Mechanisms and Kinetics of the Polymerization of Thermoplastic Polyimides. I. Study of the Pyromellitic Anhydride/Aromatic Amine System, 1649C
Grizzuti, N. See Pearson, D., 1589P
Gu, W.
—; Chern, R. T.; Chen, R. Y. S.: The Gas Permeability and Packing Density of Copolymers of Methacryloxypropyltris(trimethylsiloxy)silane and Methylmethacrylate, 1001P
Guangji, L. See Kecheng, G., 1225C
Guerra, G.
—; de Rosa, C.; Vitagliano, V. M.; Petraccone, V.; Corradini, P.: Effects of Blending on the Polymorphic Behavior of Melt-Crystallized Syndiotactic Polystyrene, 265P
Guillet, J. E. See Holdcroft, S., 729C
Guinnup, D. E. See de Groot, A. W., 547P, 557P
Guney, H. Y.
—; Oskay, T.; Ozkan, H. S.: Mechanical Anisotropy in Biaxially Oriented Polyvinyl Chloride, 897P
Gunji, T.
—; Nagao, Y.; Misono, T.; Abe, Y.: Studies on the Syntheses of Polymetalloxanes and Their Properties as a Precursor for Amorphous Oxide. V. Preparation and Properties of Polytitanosiloxanes from Silicic Acid and Bis(2,4-Pentanedionato)-titanium Diisopropoxide, 941C
Guth, E.
—; Mark, H. F.: Corrections of Some Misconceptions on the Development and Present Status of Rubber Elasticity, 627P
Guthrie, J. T.
—; Tune, P. D.: The Preparation, Characterization, and Application of Cellulose-MMA Graft Copolymers. I. The Aqueous-Based Preparation of Cellulose-MMA Graft Copolymers, 1301C
Guzmán, J. See Díaz-Calleja, R., 93P

Hachisuka, H.
—; Tsujita, Y.; Takizawa, A.; Kinoshita, T.: Gas Transport Properties of Annealed Polyimide Films, 11P
Hacioglu, B.
—; Aybar, S. P.; Akbulut, U.; Toppare, L. K.: Radiation-Induced Polymerization of Butadiene Sulfone, 1829C

Hacioglu, B. See Akbulut, U., 219C; Aybar, S. P., 1971C
Hager, W. G. See Kaszas, G., 421C, 427C
Halary, J. L.
—; Oultache, A. K.; Louyot, J. F.; Jasse, B.; Sarraf, T.; Muller, R.: Viscoelastic Properties of Styrene-co-Methyl Methacrylate Random Copolymers, 933P
Hamazu, F.
—; Akashi, S.; Koizumi, T.; Takata, T.; Endo, T.: Novel Benzyl Sulfonium Salt Having an Aromatic Group on Sulfur Atom as a Latent Thermal Initiator, 1675C
—; Akashi, S.; Koizumi, T.; Takata, T.; Endo, T.: Synthesis and Activity of Aryl Benzyl Methyl Sulfonium Salts as Cationic Initiators: Effect of Substituent on Aryl Group, 1845C
Hammouda, B. See Schroeder, J. R., 1607P
Han, Y.-K.
—; Kim, J.-H.; Choi, S.-K.: Polymerization of Vinyl Monomers Initiated by KO_2-Charge Transfer Agent Systems. II, 281C
Hara, A.
—; Oishi, Y.; Kakikoto, M.-A.; Imai, Y.: Novel Synthesis of Aromatic Polysulfides from *S,S'*-Bis(trimethylsilyl)-Substituted Aromatic Dithiols and Activated Aromatic Dihalides, 1933C
Hariharan, R. See Wei, Y., 749C
Harrell, J. W. Jr.
—; Choudhury, M.; Ahuja, S.; Walker, W.: An NMR Study of the Electron Beam-Induced Polymerization of Trimethylolpropane Triacrylate and Trimethylolpropane Trimethacrylate, 1039P
Hasegawa, M.
—; Shindo, Y.; Sugimura, T.; Horie, K.; Yokota, R.; Mita, I.: On Amide Exchange Reaction of Polyimide Precursor, 1515C
Hashida, I. See Morita, M., 1567P
Hashimoto, K.
—; Imanishi, S.-I.; Okada, M.; Sumitomo, H.: Chemical Modification of the Reducing Chain End in Dextrans and Trimethylsilylation of Its Hydroxyl Groups, 1271C
Hashimoto, T.
—; Kohjiya, S.; Yamashita, S.; Irie, M.: Photochromic and Photomechanical Ionene Elastomer Containing Poly(tetrahydrofuran) Segments and Viologen Units, 651C
—; Sano, Y.; Sawamoto, M.; Higashimura, T.; Saito, N.; Kanagawa, S.: Selective Vinyl Cationic Polymerization of Monomers with Two Cationically Polymerizable Groups. IV. New Initiating Systems for Selective and Living Polymerization of *p*-Isopropenylphenyl Glycidyl Ether, 339C
Hassan, A. See Hassan, R. M., 1645C
Hassan, R. M.
—; Awad, A.; Hassan, A.: Separation of Metal Alginate Ionotropic Gels to Polymembranes with Special Evidence on the Position of Chelation in Copper Alginate Complex, 1645C
Hata, Y. See Iwata, H., 1217C
Hatada, K.
—; Okamoto, Y.; Asakura, T.; Mohri, H.; Nakano, T.: Asymmetric Polymerization of Optically Active Phenyl-2-Pyridyl-M-Tolylmethyl Methacrylate and Stereomutation of the Polymer, 287C
Hatke, W.
—; Schmidt, H.-W.; Heitz, W.: Substituted Rod-like Aromatic Polyamides: Synthesis and Structure-Property Relations, 1387C
Havens, S. J. See Hergenrother, P. M., 1483C
Hawkinson, D. E.
—; Kohout, E.; Fornes, R. E.; Gilbert, R. D.: Some Further Observations on the Systems Cellulose/Trifluoroacetic Acid/CH_2Cl_2 and Cellulose Triacetate/TFA/CH_2Cl_2, 1599
Hay, A. S. See Jian, X., 547C, 1183C; Wang, Z. Y., 1045C
Hayashi, K. See Naka, Y., 1197C
Hayashi, S. See Lange, D. M., 785C
He, D. See Chien, J. C. W., 1585C, 1595C, 1603C, 1609C
Heatley, F. See Raby, P., 451P
Heberer, D. P. See Cheng, S. Z. D., 287P, 299P
Heck, J. See Percec, V., 591C
Heitz, W. See Hatke, W., 1387C
Henry, R. A. See Stenger-Smith, J. D., 1623C
Herbolzheimer, E. See Pearson, D., 1589P
Hergenrother, P. M.
—; Beltz, M. W.; Havens, S. J.: Polyimides Containing Carbonyl and Ether Connecting Groups. III, 1483C
Hergenrother, P. M. See Connell, J. W., 1667C
Herring, K. R. See Storey, R. F., 1759C
Hertler, W. R.
Vinylphosphonic Esters as End-Capping Agents in Group Transfer Polymerization, 869C
Heymans, N.
On Orientational and Distortional Contributions to Birefringence, 1193P
Higashimura, T. See Hashimoto, T., 339C; Kamigaito, M., 1909C; Matsumoto, T., 295C; Tsuchihara, K., 471C
Higuchi, Y. See Morishima, Y., 677C
Hijikata, C. See Nishikubo, T., 671C
Hirai, A. See Whitcombe, M. J., 251C
Hirai, H. See Sato, K., 1507C
Hirai, T. See Lange, D. M., 785C
Hirasawa, E.
—; Tadano, K.; Yano, S.: Structure and Properties of Complex Transition-Metal (II) Salts of Ethylene-Methacrylic Acid Copolymer with 1,3-Bis(aminomethyl)-cyclohexane, 753P
Hirose, T.
—; Mi, Y.; Stern, S. A.; St. Clair, A. K.: The Solubility of Carbon Dioxide and Methane in Polyimides at Elevated Pressures, 341P
Hirose, T. See Mizoguchi, K., 695P
Hmamouchi, M.
—; Prud'homme, R. E.: Synthesis and Polymerization of Racemic and Optically Active Substituted β-Propiolactones. VI. α-Phenyl β-Propiolactone, 1281C
Hoffman, D. C. See Storey, R. F., 1759C
Holdcroft, S.
Determination of Molecular Weights and Mark–Houwink Constants for Soluble

Electronically Conducting Polymers, 1585P
—; Guillet, J. E.: Studies of Photoinitiation and Phototermination of Free Radical Polymerization Using Dual Pulsed Laser Techniques, 729C
Holden, D. A. See Judge, M. D., 1203C
Hollinger, H. B. See Li, P., 1P
Holoubek, J.
Small-Angle Light Scattering from an Anisotropic Sphere: The Mueller Matrix Approach, 1057P
Hook, D. J. See Vargo, T. G., 535C
Hoover, J. M. See Stenger-Smith, J. D., 1623C
Horie, K. See Hasegawa, M., 1515C
Houde, A. Y. See Charati, S. G., 921P
Hovakeemian, G. See Pasch, H., 525C
Hristov, H. A.
—; Barton, R., Jr.; Schultz, J. M.: Interatomic Correlation in Partially Oriented Polymer Fibers, 883P
Hsiao, S.-H.
—; Yang, C.-P.: Preparation of Polyamide-Imides by Direct Polycondensation with Triphenyl Phosphite. V. Aliphatic-Aromatic Polyamide-Imides Based on *N,N'*-Bis(ω-Carboxyalkyl)-benzophenone-3,3',4,4'-Tetracarboxylic Diimides, 447C
Hsiao, S.-H. See Yang, C.-P., 1175C
Hsu, C. S.
—; Lu, Y. H.: Synthesis and Characterization of Side-Chain Liquid Crystalline Polysiloxanes Containing 4-Alkanyloxyphenyl trans-4-Alkylcyclohexanoate Side Groups, 977C
Hsu, H.-H. See Tsai, H.-B., 893P
Hsu, K.-Y. See Li, C.-H., 1447C
Hsu, S. L. See Fan, C. F., 235P
Hu, A. T. See Tsai, H.-B., 893P
Huang, B. See Wang, L., 1447P
Huang, C.-J. See Yang, C.-P., 369C
Huang, M. W. See Frisch, H. L., 131C, 1031C
Huang, T.-H. See Tzou, D. L., 49P
Huang, Y.-L.
—; Brown, N.: Dependence of Slow Crack Growth in Polyethylene on Butyl Branch Density: Morphology and Theory, 129P
Hult, A. See Johansson, M., 9C, 1639C; Sundell, P.-E., 1525C, 1535C
Hurwitz, F. See Ishida, H., 1095P
Hutchinson, J. M.
On the Kinetics of Structural Recovery in Glasses. Comments on a Paper by Avramov, Avramova, and Fakirov, 1303P

Iannacchione, G.
—; von Meerwall, E.: Influence of Polydispersity and Amine-Epoxide Ratio on Molecular Mobility in Epoxy Networks, 659P
Igarashi, M. See Takata, T., 781C
Igawa, M. See Tasaka, S., 691P
Iijima, M.
—; Takahashi, Y.; Oishi, Y.; Kakimoto, M.-A.; Imai, Y.: Preparation of Ultrathin Films of Aromatic Polyimides by Vapor Deposition Polymerization from *N*-Silylated Aromatic Diamines or Aromatic Tetracarboxylic Dithioanhydride, 1717C
Iizawa, T.
—; Kudou, H.; Nishikubo, T.: Synthesis of Polymer Containing *o*-Nitrobenzyl Ether Structure in the Main Chain, 1875C
Iizawa, T. See Nishikubo, T., 671C
Ikoma, J. See Nomura, M., 987C
Imai, Y. See Hara, A., 1933C; Iijima, M., 1717C; Jeong, H.-J., 39C, 767C, 1293C, 1691C; Liou, G.-S., 995C; Oishi, Y., 1925C; Otsuki, T., 611C; Tanaka, Y., 1941C; Xie, M.-L., 55C
Imanishi, S.-I. See Hashimoto, K., 1271C
Inagaki, N. See Tasaka, S., 691P
Inagaki, Y. See Kondo, S., 243C
Inglefield, P. T. See Cain, E. J., 1009P
Inoue, S. See Kurita, K., 937C
Inoue, T. See Saito, H., 1541P
Irie, M. See Hashimoto, T., 651C
Ishida, H.
—; Shick, R.; Hurwitz, F.: The Reaction of Phenylpropylsilsesquioxane in the Fiber Spinning Regime, 1095P
Ishida, H. See Ning, X., 1479P; Ou, S. H., 67P
Ishihara, K.
—; Nakabayashi, N.: Specific Interaction between Water-Soluble Phospholipid Polymer and Liposome, 831C
Ishikawa, N. See Lustiger, A., 1047P
Ishizu, K.
—; Shimomura, K.; Fukutomi, T.: Synthesis of AB Type Diblock Macromonomers, 923C
—; Shimomura, K.; Saito, R.; Fukutomi, T.: Anionic One-Shot Polymerization of AB Type Diblock Macromonomers, 607C
Isogai, A.
—; Atalla, R. H.: Amorphous Celluloses Stable in Aqueous Media: Regeneration from SO_2-Amine Solvent Systems, 113C
Ito, H.
—; Renaldo, A. F.: Elementary Reaction and Anionic Polymerization of Isopropenyl t-Butyl Ketone, 1001C
Ito, H. See Kuzuya, M., 1C; Ueda, M., 1779C
Itoh, M.
—; Lenz, R. W.: Side-Chain Liquid Crystalline Polymers with Silphenylene-Siloxane Main Chains. I. Synthesis of Silphenylene-Siloxane Polymers Containing Hydrosilane Units, 1399C
—; Lenz, R. W.: Side-Chain Liquid Crystalline Polymers with Silphenylene-Siloxane Main Chains. II. Preparation and Characterization of Polymers Containing Biphenyl Mesogens, 1407C
Iwasaki, M. See Kondo, S., 243C
Iwase, Y.
Complete Esterification of Ethylene-Methacrylic Acid and Ethylene-Acrylic Acid Copolymers by Reaction of Their Salts with Ethyl Iodide, 585C
Iwata, H.
—; Hata, Y.; Matsuda, T.: Initiation of Radical Polymerization by Glucose Oxidase Utilizing Dissolved Oxygen, 1217C
Iyanar, K. See Kishore, K., 1039C

Jacobs, H. See Park, K. D., 1725C
Jadhav, A. S.
—; Maldar, N. N.; Shinde, B. M.; Vernekar, S. P.: Synthesis

and Characterization of Silicon-Containing Polyamides from Aromatic Sulfone Ether Diamines and Aromatic Organosilicon Diacid Chlorides, 147C
Jaffe, M. See Chung, T.-S., 1207C
Jain, S. R. See Thangamathesvaran, P. M., 261C
Jakeways, R. See Gallagher, G. A., 1147P
Jakus, K. See Chien, J. C. W., 495C
Jamil, T.
Review of Polymer Solutions, 1833C
Jasse, B. See Halary, J. L., 933P
Jeong, H.-J.
—; Kakimoto, M.-A.; Imai, Y.: Synthesis and Characterization of New Soluble Aromatic Polyimides from 3,4-Bis(4-Aminophenyl)-2,5-Diphenylpyrrole and Aromatic Tetracarboxylic Dianhydrides, 1691C
—; Kakimoto, M.-A.; Imai, Y.: Synthesis and Characterization of Novel Aromatic Polyamides from 3,4-Bis(4-Aminophenyl)-2,5-Diphenylpyrrole and Aromatic Diacid Chlorides, 767C
—; Kakimoto, M.-A.; Imai, Y.: Synthesis and Characterization of Novel Polyarylates from 2,5-Bis(4-Hydroxyphenyl)-3,4-Diphenylfuran and Aromatic Diacid Chlorides, 1293C
—; Oishi, Y.; Kakimoto, M.-A.; Imai, Y.: Synthesis and Characterization of New Soluble Aromatic Polyimides from 3,4-Bis(4-Aminophenyl)-2,5-Diphenylfuran and Aromatic Tetracarboxylic Dianhydrides, 39C
Jhingree, I. See Cassidy, P. E., 1313C
Jhon, M. S. See Yoon, J. H., 393C
Jian, X.
—; Hay, A. S.: Catalytic Epoxidation of Polyisobutylene-co-Isoprene with Hydrogen Peroxide, 547C
—; Hay, A. S.: Catalytic Epoxidation of Styrene-Butadiene Triblock Copolymer with Hydrogen Peroxide, 1183C
Jikei, M. See Yamamoto, K., 1359C
Jin, J.-I.
—; Park, C.-K.; Shim, H.-K.: Synthesis and Electroconductivities of Poly(2-Methoxy-5-Methythio-1,4-Phenylene Vinylene) and Copolymers, 93C
Jo, W. H.
—; Kim, H. G.: Miscibility of Poly(ε-caprolactone) and of Poly(styrene-co-acrylonitrile) with Poly(styrene-co-acrylic acid), 1579P
Jo, W. H. See Lee, S. C., 759P
Johansson, M.
—; Hult, A.: Influence of Allyl Ethers in Coating Resins, 1639C
—; Hult, A.: Influence of Allyl Ethers on Free Radical Polymerization of Styrene, 9C
Johari, G. P. See Mangion, M. B. M., 437P, 723P, 1117P, 1127P; Sidebottom, D. L., 1215P
Johnson, C. G. See Cassidy, P. E., 1313C
Jones, A. A. See Cain, E. J., 1009P
Jonsson, H. See Percec, V., 327C
Jönsson, S. See Sundell, P.-E., 1525C, 1535C
Jouan, X.
—; Gardette, J.-L.: Photooxidation of ABS at Long-Wavelengths, 685C
Joubert, F. See Grenier-Loustalot, M.-F., 1649C
Jozefowicz, M. See Letourneur, D., 1367C
Judge, M. D.
—; Gardin, G. P.; Thompson, E.; Lowen, S. V.; Holden, D. A.: Langmuir-Blodgett Films of Random Copolymers of Methacrylic Acid and 4-Vinylpyridine with Styrene, 1203C

Kaetsu, I. See Naka, Y., 1197C
Kaito, A.
—; Nakayama, K.; Kyotani, M.: Surface Orientation of a Liquid-Crystalline Polymer Studied by Polarized Reflection Spectroscopy, 1321P
Kaji, A.
—; Akitomo, Y.; Murano, M.: NMR Study of Microstructure of Ultra High-Molecular Weight Polyethylene, 1987C
Kakikoto, M.-A. See Hara, A., 1933C; Iijima, M., 1717C; Jeong, H.-J., 39C, 767C, 1293C, 1691C; Liou, G.-S., 995C; Oishi, Y., 1925C; Otsuki, T., 611C; Tanaka, Y., 1941C; Xie, M.-L., 55C
Kaluzynski, K.
—; Szymanski, R.; Penczek, S.: The Change of Sign of ΔH^0_{SS} and ΔS^0_{SS} in Passing from Bulk to Solution in the Polymerization of Cyclic Monomers with Low Strain: Polymerization of 2-Hydro-2-Oxo-1,3,2-Dioxaphosphorinane, 1825C
Kamachi, M. See Morishima, Y., 677C
Kameyama, A. See Endo, T., 135C
Kamigaito, M.
—; Sawamoto, M.; Higashimura, T.: Living Cationic Polymerization of Vinyl Ethers by Electrophile/Lewis Acid Initiating Systems. VII. Living Cationic Polymerization of Isobutyl Vinyl Ether by Trimethylsilyl Halide/Zinc Halide Initiating Systems in the Presence of *p*-Methoxybenzaldehyde: Effects of Halide Anions and Zinc Halides, 1909C
Kamiya, Y.
—; Mizoguchi, K.; Naito, Y.; Bourbon, D.: Argon Sorption and Partial Molar Volume in Poly(ethyl methacrylate) above and below the Glass Transition Temperature, 225P
Kamiya, Y. See Mizoguchi, K., 695P; Naito, Y., 457P
Kanagawa, S. See Hashimoto, T., 339C
Kang, E. T.
—; Neoh, K. G.; Tan, K. L.: Charge Transfer Interactions in Some Poly[[o-(trimethylsilyl)phenyl]acetylene]-Acceptor Complexes, 669P
Kang, E. T. See Neoh, K. G., 759C
Kang, Y. K. See Yoon, J. H., 393C
Kannan, P. See Kishore, K., 1039C
Kaplan, D. L. See Akkara, J. A., 1561C
Kaplan, M. L.
—; Schilling, M. L.; Musjsce, A. M.: A Model Reaction for

an Epoxy Resin Cured with an Aromatic Amine, 599C
Kapur, G. S.
—; Brar, A. S.: ^{13}C-NMR Studies of Compositional and Configurational Sequence Distribution in Acrylonitrile-Ethyl Methacrylate Copolymers, 479C
Karasz, F. E. See Cifra, P., 1389P; Liang, K., 649P
Kasai, P. H. See McKean, D. R., 309C
Kasai, T. See Tanabe, Y., 501P
Kaszas, G.
—; Puskas, J. E.; Kennedy, J. P.; Hager, W. G.: Polyisobutylene-Containing Block Polymers by Sequential Monomer Addition. I. The Living Carbocationic Polymerization of Styrene, 421C
—; Puskas, J. E.; Kennedy, J. P.; Hager, W. G.: Polyisobutylene-Containing Block Polymers by Sequential Monomer Addition. II. Polystyrene-Polyisobutylene-Polystyrene Triblock Polymers: Synthesis, Characterization, and Physical Properties, 427C
Katayama, K.-I. See Kawaguchi, A., 683P
Kawaguchi, A.
—; Okihara, T.; Murakami, S.; Ohara, M.; Katayama, K.-I.; Petermann, J.: Epitaxial Growth of Isotactic Polypropylene on Oriented Polyethylene from Solution, 683P
Kawai, T. See Tashiro, K., 1223P
Kecheng, G.
—; Guangji, L.; Qiuxiong, H.: Thermo-Oxidative Aging in Surface Layer of cis-1,4-Polybutadiene Vulcanizates, 1225C
Kennedy, J. P. See Kaszas, G., 421C, 427C; Zsuga, M., 875C
Kenney, D. J. See Chen, W.-P., 1513P
Keohan, F. L.
—; Swint, S. A.; Buese, M. A.: Selective Degradation of Silicone Copolymers and Networks, 303C
Kikkawa, A.
—; Takata, T.; Endo, T.: Effect of Alkyl Substituents on Initiator Activity in Cationic Polymerization of Styrene with p-Methoxybenzyldialkylsulfonium Salts as Initiators, 1089C
Kim, H. C. See Yoon, H. N., 1081P
Kim, H. G. See Jo, W. H., 1579P
Kim, J.-H. See Han, Y.-K., 281C
Kim, S. H.
—; Cotts, P. M.: Light Scattering and Size Exclusion Chromatography of Semiflexible Polyimide Precursors, 109P
Kim, S. W. See Park, K. D., 1725C
Kimmich, R.
—; Köpf, M.; Callaghan, P.: Components of Transverse NMR Relaxation in Polymer Melts: Influence of Chain-End Dynamics, 1025P
Kimura, Y. See Yamashita, K., 777C
King, T. A. See Viras, F., 1467P
Kinoshita, T. See Hachisuka, H., 11P
Kip, B. J.
—; Van Eijk, C. P.; Meier, R. J.: Molecular Deformation of High-Modulus Polyethylene Fibers Studied by Micro-Raman Spectroscopy, 99P
Kishore, K.
—; Kannan, P.; Iyanar, K.: Synthesis, Characterization, and Fire Retardancy of Ferrocene Containing Polyphosphate Esters, 1039C
Kitamura, N.
—; Takata, T.; Endo, T.; Nishikubo, T.: Syntheses and Polymerization of (Meth)acrylates Containing Spiro Ortho Ester Moieties, 1151C
Kiyotsukuri, T. See Tsutsumi, N., 1085P, 1963C
Klier, J. See Scranton, A. B., 211P
Kobayashi, M. See Tashiro, K., 1223P
Kogure, A. See Tsubokawa, N., 697C
Kohjiya, S. See Hashimoto, T., 651C
Kohout, E. See Hawkinson, D. E., 1599
Koizumi, T. See Hamazu, F., 1675C, 1845C
Komatsu, A. See Lange, D. M., 785C
Komoto, T. See Kubo, K., 57P
Kondo, S.
—; Inagaki, Y.; Yasui, H.; Iwasaki, M.; Tsuda, K.: Insoluble Polystyrenes Containing Amide Moieties and *N*-Alkylated Nylon-66 as Phase Transfer Catalysts, 243C
Kondo, S.-I. See Kuzuya, M., 1C, 489C
Kopeček, J. See Rathi, R. C., 1895C
Kopečková, P. See Rathi, R. C., 1895C
Köpf, M. See Kimmich, R., 1025P
Koros, W. J. See McHattie, J. S., 731P
Kosky, P. G.
A Model of the Kinetics of Macrocyclic BPA Carbonate Formation, 101C
Kotaki, R. See Matsumoto, A., 1707C
Krafft, T. E. See McDermott, P. J., 1681C
Kramer, A. See Vijayakumar, C. T., 929C
Krause, S. See Li, P., 1P
Kricheldorf, H. R.
—; Thomsen, S. A.: New Polymer Syntheses. 60. Thermostable Polymers of 2-(Hydroxyaryl)benzoxazole-5-Carboxylic Acids, 1751C
Krieger, I. M. See Cai, G., 773P
Krizan, T. D. See Bhagwagar, D. E., 1547P
Ku, W.-H. See Lee, Y.-L., 1083C
Kubisa, P. See Biedron, T., 619C
Kubo, K.
—; Ando, I.; Shiibashi, T.; Yamanobe, T.; Komoto, T.: Conformations and ^{13}C NMR Chemical Shifts of Some Polyamides in the Solid State as Studied by High-Resolution ^{13}C NMR Spectroscopy, 57P
Kubota, K. See Ohta, H., 963P
Kubota, S.
Preparation and Thermal Properties of Polyquinazolones: Effect of the Chemical Structure of Bisbenzoxazinones on the Thermal Properties, 1191C
Kudou, H. See Iizawa, T., 1875C
Kulkarni, M. G. See Charati, S. G., 921P
Kulkarni, S. S. See Charati, S. G., 921P
Kumar, T. See Nowlin, T. E., 1167C
Kuo, J.-F. See Pan, T.-C., 709C
Kurita, K.
—; Inoue, S.; Nishimura, S.-I.: Preparation of Soluble Chitin Derivatives as Reactive Precursors for Controlled Modifications: Tosyl- and Iodo-Chitins, 937C
Kuzuya, M.
—; Kondo, S.-I.; Noguchi, A.;

Noda, N.: Mechanistic Study on Mechanochemical Polymerization of Acrylamide, 489C
—; Noguchi, A.; Ito, H.; Kondo, S.-I.; Noda, N.: Electron Spin Resonance Studies of Plasma-Induced Polystyrene Radicals, 1C
Kwei, T. K. See Chien, Y. Y., 849C; Wang, L. F., 619P
Kyotani, H. See Tanabe, Y., 501P
Kyotani, M. See Kaito, A., 1321P
Kyu, T. See Takahashi, H., 1419P

Lagow, R. J. See Persico, D. F., 233C
Lahalih, S. See Pasch, H., 525C
Lam, T. M. See Serier, A., 1125C; Surivet, F., 1977C
Lando, J. B. See Ou, S. H., 67P
Lange, D. M.
—; Poehlein, G. W.; Hayashi, S.; Komatsu, A.; Hirai, T.: Kinetic Analysis of Seeded Emulsion Polymerization of Vinyl Acetate, 785C
Langer, R. See Domb, A. J., 571C
Lapienis, G.
—; Penczek, S.: Poly(alkylene Phosphate) Bearing Tetrahydrofuran Rings (1,4-Anhydroerythritol) in the Main Chain, 1523C
Larson, R. G.
—; Mead, D. W.: Toward a Quantitative Theory of the Rheology of Concentrated Solutions of Stiff Polymers, 1271P
Lathia, A. See Meister, J. J., 1465C
Lau, W. Y. See Lee, C. S., 1889C
Laus, M. See Angeloni, A. S., 1865C
Lazár, M. See Chodák, I., 581C
Lederer, K. See Vijayakumar, C. T., 929C
Lee, C. See Tsai, H.-B., 893P
Lee, C. S.
—; Lau, W. Y.; Lee, S. Y.; Goh, S. H.: Synthesis and Characterization of a New Monomer with Pendant Hindered Amine Group, 1889C
Lee, J. W.
—; Takase, Y.; Newman, B. A.; Scheinbeim, J. I.: Effect of Annealing on the Ferroelectric Behavior of Nylon-11 and Nylon-7, 279P
—; Takase, Y.; Newman, B. A.; Scheinbeim, J. I.: Ferroelectric Polarization Switching in Nylon-11, 273P
Lee, M. See Percec, V., 327C, 1615C
Lee, M. S. See Lee, S. C., 759P
Lee, S. See Lin, C. B., 1457P
Lee, S. C.
—; Lee, M. S.; Jo, W. H.: Phase Behavior of Poly(ethylene Oxide) and Sulfonated Polystyrene Blends with and without Solvent, 759P
Lee, S. Y. See Lee, C. S., 1889C
Lee, Y. See Storey, R. F., 317C
Lee, Y. D.
—; Phillips, P. J.; Lin, J. S.: The Influence of Crystallinity Distribution on Small-Angle X-Ray Scattering from Semicrystalline Polymers, 1235P
Lee, Y.-L.
—; Ku, W.-H.; Tsou, J.-D.; Wei, K.-T.; Sung, P.-H.: Epoxy Modified Polyurethane Rigid Foams, 1083C
Leiza, J. R. See Arzamendi, G., 1549C; de la Cal, J. C., 155C; Urquiola, B., 169C
Lenz, R. W. See Benvenuti, M., 793C; Itoh, M., 1399C, 1407C; Reddy, C. R., 1015C
Leong, K. W. See Richards, M., 1157C
Leonov, A. I.
—; Brown, H. R.: A Model of Fibril Deformation in Crazes, 197P
Letourneur, D.
—; Douzon, C.; Jozefowicz, M.: Synthesis and Characterization of Phosphorylated Polystyrene Derivatives for Use in Chromatography: DNA-like and Phospholipid-like Behavior, 1367C
Levenfeld, B. See San Román, J., 1023C
Levoy, R. See Milhourat-Hammadi, A., 1347C
Li, C. See Yang, C. Z., 75P
Li, C.-H.
—; Chang, T.-C.: Thermotropic Liquid Crystalline Polymer. III. Synthesis and Properties of Poly(amide-Azomethine-Ester), 361C
—; Hsu, K.-Y.; Chang, T.-C.: Studies on the Thermotropic Liquid Crystalline Polymer. VI. Synthesis and Properties of Homo- and Co-Poly(amide-Azomethine-Ether), 1447C
Li, P.
—; Krause, S.; Hollinger, H. B.: An Improvement in the Flory Corresponding-States Theory of Polymer Solutions, 1P
Li, Y.
—; Wu, C.; Chu, B.: Synchrotron Wide-Angle X-Ray Diffraction of Single-Filament PPTA Fibers Under Stress, 1309P
Liang, K.
—; Bánhegyi, G.; Karasz, F. E.; MacKnight, W. J.: Thermal, Dielectric, and Mechanical Relaxation in Poly(benzimidazole)/Poly(etherimide) Blends, 649P
Lin, C. B.
—; Liu, K. S.; Lee, S.: Methanol-Induced Opacity in Poly(Methyl Methacrylate), 1457P
Lin, C.-H. See Matyjaszewski, K., 1439C
Lin, F.-L. See Tsai, H.-B., 893P
Lin, J. S. See Lee, Y. D., 1235P
Lin, J.-H. See Yang, C.-P., 1175C
Lin, S. See Richards, M., 1157C
Lin, X. Z. See Belfield, K. D., 1073C
Lindley, P. M.
—; Reinhardt, B. A.: Intramolecular Cyclization of Pendant Phenylethynyl Groups as a Route to Solvent Resistance in Polyphenylquinoxalines, 1061C
Lindsay, G. A. See Stenger-Smith, J. D., 1623C
Liou, G.-S.
—; Oishi, Y.; Kakimoto, M.-A.; Imai, Y.: Preparation and Properties of Aromatic Polyamides from 2,2'-Bibenzoic Acid and Aromatic Diamines, 995C
Litt, M. H. See Cai, G., 773P
Liu, C.-K.
—; Cuculo, J. A.; Allen, T. C.; Degroot, A. W.: Fiber Formation via Solution Spinning of the Cellulose/Ammonia/Ammonium Thiocyanate System, 181P
Liu, G. L. See Gent, A. N., 1313P
Liu, K. S. See Lin, C. B., 1457P
Lloyd, D. R. See Tseng, H.-S., 161P
Lo, F. Y. See Nowlin, T. E., 1167C
Long, J. M. See Peanasky, J. S., 565P
Loubet, J. L. See Montfort, J. P., 677P

Louis, P. E. J. See Pearson, L. T., 515C
Louyot, J. F. See Halary, J. L., 933P
Lowen, S. V. See Judge, M. D., 1203C
Lu, J.-Y. See Chiang, W.-Y., 399C
Lu, Y. H. See Hsu, C. S., 977C
Lucotte, G.
—; Cormier, L.; Delfort, B.: Ethynyl-Terminated Polyethers from New End-Capping Agents. II. End-Chain Functionalization through Nitro Displacement, 897C
Lustiger, A.
—; Ishikawa, N.: An Analytical Technique for Measuring Relative Tie-Molecule Concentration in Polyethylene, 1047P

MacDonald, S. A. See McKean, D. R., 309C
MacKnight, W. J. See Cifra, P., 1389P; Liang, K., 649P
MacNeill, N. J. See Colletti, R. F., 1633C
Maddams, W. F. See Dawson, P. C., 1407P
Madruga, E. L. See San Román, J., 1023C
Magagnini, P. L. See Vittoria, V., 1163P
Mahajan, S. S. See Sarwade, B. D., 825C
Mai, Y.-W.
—; Powell, P.: Essential Work of Fracture and J-Integral Measurements for Ductile Polymers, 785P
Maldar, N. N. See Jadhav, A. S., 147C
Mandelkern, L. See Nandi, A. K., 1287P
Manero, O. See Cardoso, J., 639P
Mangion, M. B. M.
—; Johari, G. P.: Relaxations in Thermosets. IX. Ionic Conductivity and Gelation of DGEBA-Based Thermosets Cured with Pure and Mixed Amines, 1117P
—; Johari, G. P.: Relaxations in Thermosets. VI. Effects of Crosslinking on Sub-T_g Relaxations During the Curing and Aging of Epoxide-Based Thermosets, 437P
—; Johari, G. P.: Relaxations in Thermosets. X. Analysis of Dipolar Relaxations in DGEBA-Based Thermosets During Isothermal Cure, 1127P
—; Vanderwal, J. J.; Walton, D.; Johari, G. P.: Relaxations of Thermosets. VIII. Brillouin Light Scattering During the Curing of Diglycidyl Ether of Bisphenol-A Thermosets, 723P
Manivannan, G.
—; Fouassier, J. P.: Primary Processes in the Photosensitized Polymerization of Cationic Monomers, 1113C
Mano, M. See Ueda, M., 1779C
Margel, S.
—; Nov, E.; Fisher, I.: Polychloromethylstyrene Microspheres: Synthesis and Characterization, 347C
Mark, H. F. See Guth, E., 627P
Mark, J. E. See Xu, P., 355P
Marrucci, G. See Pearson, D., 1589P
Martínez, E. See Ordejón, P., 811P
Martinez, J. R. See Chien, J. C. W., 495C
Maruo, S. See Sato, H., 1073P
Maruyama, H. See Chatani, Y., 1649P
Masuda, T. See Matsumoto, T., 295C
Masuda, T. See Tsuchihara, K., 471C
Mateo, J. L.
—; Bosch, P.; Catalina, F.; Sastre, R.: Novel Dialkylaminoalkyl- and Dialkylaminoalcoxi-Benzophenones as Photoinitiators of Polymerization. I. Photochemical Characteristics and Radical Efficiencies, 1955C
Mateva, R.
—; Nikolov, K.: On Some Regularities of Grafting of Vinylpyridine Derivatives onto Acetyl Cellulose, 187C
Mathias, L. J. See Colletti, R. F., 1633C; Muthiah, J., 29C
Mathiowitz, E. See Domb, A. J., 571C
Matsuda, H.
—; Takechi, S.: Syntheses and Properties of Halato-Telechelic Polyurethane-Ureas from Divalent Metal Salts of *p*-Aminobenzoic Acid, Diamine, Dialkylene Glycols, and Diisocyanate, 83C
Matsuda, T. See Iwata, H., 1217C
Matsui, K. See Nagase, Y., 171P
Matsumoto, A.
—; Fukushima, K.; Otsu, T.: Synthesis of Substituted Polymethylenes by Radical Polymerization of *N,N,N',N'*-Tetraalkylfumaramides and Their Characterization, 1697C
—; Kotaki, R.; Otsu, T.: Synthesis of Substituted Polymethylenes by Radical Polymerization of Alkyl *N,N*-Dialkylfumaramates and Maleamates: Relative Reactivity of the Isomers, 1707C
Matsumoto, T.
—; Masuda, T.; Higashimura, T.: Polymerization of 1-Methylthio-1-Alkynes and Polymer Properties, 295C
Matsuura, M. See Saito, H., 1541P
Mattice, W. L. See Yu, W.-C., 715P
Matyjaszewski, K.
—; Lin, C.-H.: Cationic Polymerization of Styrenes by Activated Covalent Species. Direct ^{1}H-NMR Observation of Complexes of 1-Phenylethyl Acetates with Lewis Acids, 1439C
Mazaud, P. See Fontanella, J. J., 747P
McDermott, P. J.
—; Krafft, T. E.; Rich, J. D.: Silicone Polycarbonates from New Aryl-Terminated Siloxane Precursors, 1681C
McEwen, I. J. See Cowie, J. M. G., 407P
McGrath, J. E. See Spinu, M., 657C
McHattie, J. S.
—; Koros, W. J.; Paul, D. R.: Effect of Isopropylidene Replacement on Gas Transport Properties of Polycarbonates, 731P
McHugh, A. J.
—; Spevacek, J. A.: The Kinetics of Flow-Induced Crystallization From Solution, 969P
McHugh, A. J. See Tsay, C. S., 1261P
McKean, D. R.
—; Schaedeli, U. P.; Kasai, P. H.; MacDonald, S. A.: The Effect of Polymer Structure on the Efficiency of Acid Generation from Triarylsulfonium Salts, 309C
McVitie, S. See White, J. R., 31P

Mead, D. W. See Larson, R. G., 1271P
Meador, M. A. See Waters, J. F., 1917C
Meador, M. A. B. See Waters, J. F., 1917C
Meier, R. J. See Kip, B. J., 99P
Meister, J. J.
—; Lathia, A.; Chang, F.-F.: Solvent Effects, Species and Extraction Method Effects, and Coinitiator Effects in the Grafting of Lignin, 1465C
Merienne, C. See Milhourat-Hammadi, A., 1347C
Meyer, A. E. See Vargo, T. G., 535C
Meyer, A. E. See Vargo, T. G., 555C
Mi, Y.
—; Stern, S. A.: Gas Permeability of a New Silicone Ring Polymer: Isotactic Poly(phenyl silsesquioxane), 389P
Mi, Y. See Hirose, T., 341P
Mijovic, J.
Review of *Product Design and Testing of Polymeric Materials*, 1365C
Mikos, A. G.
—; Peppas, N. A.: Brittle Fracture of Entangled Polymers, 837P
Mikroyannidis, J. A.
Laminating Resins Obtained from 2,2′-(1,4-Phenylene-divinylene)bispyridine Bismaleimides and Maleimide-Terminated Styrylpyridine Prepolymers, 411C
Polyesters, Polyurethanes, and Epoxy Resin Derived from 2,2′-(1,4-Phenylenedivinylene)bis-5-Hydroxypyridine, 881C
Milhourat-Hammadi, A.
—; Chayrigues, H.; Levoy, R.; Merienne, C.; Gaudemer, A.: Synthesis and NMR Study of Amide and Imide Derivatives of PMR-15 Monomeric Units, 1347C
Miller, R. D.
—; Thompson, D.; Sooriyakumaran, R.; Fickes, G. N.: The Synthesis of Soluble, Substituted Silane High Polymers by Wurtz Coupling Techniques, 813C
Miller, W. G. See Olayo, R., 1473P; Tsang, C. J., 247P
Minagawa, Y. See Tashiro, K., 1223P
Mink, R. I. See Nowlin, T. E., 1167C
Misono, T. See Gunji, T., 941C
Mita, I. See Hasegawa, M., 1515C
Mitchell, G. R. See Whitcombe, M. J., 251C
Mizoguchi, K.
—; Kamiya, Y.; Hirose, T.: Gas Transport in Poly[*bis*-(trifluoroethoxy)phosphazene] above the T(1) Transition, 695P
Mizoguchi, K. See Kamiya, Y., 225P; Naito, Y., 457P
Mizuya, J.
—; Yokozawa, T.; Endo, T.: Cyclotrimerization of Aryl Isocyanates Catalyzed by Alkoxyallenes through Zwitterionic Mechanism, 1545C
Mohri, H. See Hatada, K., 287C
Montfort, J. P.
—; Tonck, A.; Loubet, J. L.; Georges, J. M.: Microrheology of High-Polymer Solutions, 677P
Moore, D. R. See Evers, R. C., 121C
Moore, R. See Chen, W.-P., 1513P
Morawetz, H.
Review of Giant Molecules, 291C
Review of The American Synthetic Rubber Research Program, 1833C
Mori, H. See Ueda, M., 1779C
Morishima, Y.
—; Higuchi, Y.; Kamachi, M.: Interfacial Electrostatic Potential of Polyions As Probed by Acid-Base Indicator Dyes Covalently Attached to the Main Chain, 677C
Morita, M.
—; Hashida, I.: Electrochromism of Polyaniline-Poly(vinyl alcohol) Composite Films Prepared by Chemical Oxidative Polymerization at a Gas–Liquid Interface, 1567P
Moriya, O.
—; Urata, Y.; Endo, T.: Synthesis of Organotin Polymers from Diallylidenepentaerithritol (DAPE) and Organotin Monohydrides Having an Alkenyl Substituent, 1501C
Morris, M. See Collyer, A. A., 193C
Moussa, K. See Decker, C., 739C
Moylan, C. R.
—; Best, M. E.; Ree, M.: Solubility of Water in Polyimides: Quartz Crystal Microbalance Measurements, 87P
—; Best, M. E.; Ree, M.: Solubility of Water in Polyimides: Quartz Crystal Microbalance Measurements, 771P
Muller, R. See Halary, J. L., 933P
Mullis, J. C. See Vandenberg, E. J., 1421C
Mumby, S. J. See Qian, C., 635P
Murakami, S. See Kawaguchi, A., 683P
Murano, M. See Kaji, A., 1987C
Muscato, M. R.
—; Sundberg, D. C.: A Note on the Morphology of Composite Polymer Particles, 1021P
Musjsce, A. M. See Kaplan, M. L., 599C
Muthiah, J.
—; Mathias, L. J.: Copolymers of 2-Vinyl-4,4-Dimethylazlactone with Styrene and Ethyl α-Hydroxymethylacrylate, 29C
Muthukumar, M. See Shukla, P., 1373P
My, L. T. See Serier, A., 209C

Nadler, M. P. See Stenger-Smith, J. D., 1623C
Nagai, N. See Sueoka, K., 1903C
Nagao, Y. See Gunji, T., 941C
Nagase, Y.
—; Ueda, T.; Matsui, K.; Uchikura, M.: Chemical Modification of Poly(substituted-acetylene). I. Synthesis and Gas Permeability of Poly(1-trimethylsilyl-1-propyne)/Poly(dimethylsiloxane) Graft Copolymer, 171P
Nagata, M. See Sueoka, K., 1903C
Naito, Y.
—; Mizoguchi, K.; Terada, K.; Kamiya, Y.: The Effect of Pressure on Gas Permeation Through Semicrystalline Polymers Above the Glass Transition Temperature, 457P
Naito, Y. See Kamiya, Y., 225P
Naka, Y.
—; Kaetsu, I.; Yamamoto, Y.; Hayashi, K.: Preparation of Microspheres by Radiation-Induced Polymerization. I. Mechanism for the Formation of Monodisperse Poly(diethylene Glycol Dimethacrylate) Microspheres, 1197C

Nakabayashi, N. See Ishihara, K., 831C
Nakamura, Y.
—; Norisuye, T.; Teramoto, A.: Third Virial Coefficient of Polystyrene in Benzene, 153P
Nakano, T. See Hatada, K., 287C
Nakayama, K. See Kaito, A., 1321P
Nam, J.-D.
—; Seferis, J. C.: A Composite Methodology for Multistage Degradation of Polymers, 601P
Nandi, A. K.
—; Mandelkern, L.: The Influence of Chain Structure on the Equilibrium Melting Temperature of Poly(vinylidene fluoride), 1287P
Napper, D. H. See Pearson, L. T., 515C
Natarajan, P. See Anbalagan, K., 1739C; Ramaraj, R., 1339C
Neagu-Plesu, R.
—; Bazuin, C. G.: A Dielectric Study of the Glass and 'Cluster' Transitions in a Plasticized Poly(ethyl Acrylate) Ionomer, 1305P
Neef, C. J. See Cassidy, P. E., 1313C
Negulescu, I. I.
Review of *Polymers in Microelectronics. Fundamentals and Applications*, 1365C
Neoh, K. G.
—; Kang, E. T.; Tan, K. L.: A Comparative Study on the Structural Changes in Leucoemeraldine and Emeraldine Base upon Doping by Perchlorate, 759C
Neoh, K. G. See Kang, E. T., 669P
Newman, B. A. See Lee, J. W., 273P, 279P
Ng, K. C. See Greener, J., 843P
Ngai, K. L.
Coupling Scheme Applied to Solvent Relaxation Modified by Dissolved Polymer Molecules, 867P
Ngai, K. L.
—; Yee, A. F.: Some Connections Between Viscoelastic Properties of PVC and Plasticized PVC and Molecular Kinetics, 1493P
Nikolov, K. See Mateva, R., 187C
Ning, X.
—; Ishida, H.: Dynamic Mechanical Analysis of RIM Nylon-6, 1479P
Nishide, H. See Yamamoto, K., 1359C
Nishikubo, T.
—; Hijikata, C.; Iizawa, T.: Photochemical Property of the Polymer-Bearing Pendant Norbornadiene Moiety and Storage Stability of the Resulting Quadricyclane Group in the Polymer, 671C
Nishikubo, T. See Iizawa, T., 1875C; Kitamura, N., 1151C
Nishimura, S.-I. See Kurita, K., 937C
Nissan, R. A. See Stenger-Smith, J. D., 1623C
Nock, L. A.
—; Goldwasser, J. M.; Adolph, H. G.: Nitro- and Fluoropolyformals. III. Copolyformals from Mixtures of Fluoro- and Nitro-α,ω-Diols, 1133C
Nock, L. A. See Adolph, H. G., 719C
Noda, N. See Kuzuya, M., 1C, 489C
Noguchi, A. See Kuzuya, M., 1C, 489C
Nomura, M.
—; Yamada, A.; Fujita, S.; Sugimoto, A.; Ikoma, J.; Fujita, K.: Kinetics and Mechanism of Emulsion Polymerization Initiated by Oil-Soluble Initiators. II. Kinetic Behavior of Styrene Emulsion Polymerization Initiated by 2,2′-Azoisobutyronitrile, 987C
Norisuye, T. See Nakamura, Y., 153P
Noro, S.
—; Yamadaya, T.: ESR and Electrical Conduction in Pyrolyzed Polyimides, 359P
Nov, E. See Margel, S., 347C
Nowlin, T. E.
—; Mink, R. I.; Lo, F. Y.; Kumar, T.: Ziegler-Natta Catalysts on Silica for Ethylene Polymerization, 1167C
Nozaki, T.
—; Chien, J. C. W.: Solvay Type VCl_3 Isospecific Catalysts, 1807C
Nozaki, T. See Chien, J. C. W., 505C

O'Driscoll, K. F. See Dube, M., 703C
Ogino, K. See Sato, H., 1073P
Ohara, M. See Kawaguchi, A., 683P
Ohta, H.
—; Ando, I.; Fujishige, S.; Kubota, K.: Molecular Motion and ^1H NMR Relaxation of Aqueous Poly(N-isopropylacrylamide) Solution Under High Pressure, 963P
Ohtani, H. See Sueoka, K., 1903C
Oi, K. See Yamamoto, K., 1359C
Oishi, Y.
—; Kakimoto, M.-A.; Imai, Y.: Synthesis of Aromatic Polyamide-Imides from *N,N′*-Bis(trimethylsilyl)-Substituted Aromatic Diamines and 4-Chloroformylphthalic Anhydride, 1925C
Oishi, Y. See Hara, A., 1933C; Iijima, M., 1717C; Jeong, H.-J., 39C; Liou, G.-S., 995C; Percec, V., 949C, 965C; Tanaka, Y., 1941C; Xie, M.-L., 55C
Okada, M. See Hashimoto, K., 1271C
Okamoto, Y. See Hatada, K., 287C
Okano, T. See Park, K. D., 1725C
Okawara, M. See Endo, T., 135C
Okihara, T. See Kawaguchi, A., 683P
Okita, S. See Percec, V., 1789C
Okoroafor, E.
—; Rault, J.: Cryodilation of Thermoplastic PEBA Elastomers, 1427P
Okuo, M. See Otsu, T., 837C
Olayo, R.
—; Miller, W. G.: Gelation of Poly(*n*-Butylisocyanate) in Benzene, 1473P
Ono, K. See Tashiro, K., 1223P
Ordejón, P.
—; Martínez, E.; Plans, J.: Vibrational Analysis for the All-Trans Ferroelectric Phase Conformation of P (VDF) Homopolymer and of P(VDF/TrFE) Copolymer: A Cluster-Lattice Calculation, 811P
Oskay, T. See Guney, H. Y., 897P
Ostanevich, Y. M. See Pleštil, J., 509P
Otsu, T.
—; Yamada, B.; Fujita, M.; Okuo, M.: Dimethyl 1-Hexene-2,5-Dicarboxylate, Methyl Methacrylate Dimer, as Polymerizable Acrylic Ester

Bearing Bulky α-Substituent, 837C
Otsu, T. See Cheng, J.-S., 1837C; Endo, K., 643C, 807C, 843C, 1991C
Otsu, T. See Matsumoto, A., 1697C, 1707C; Yamada, B., 637C
Otsuki, T.
—; Kakimoto, M.-A.; Imai, Y.: Synthesis and Properties of Multiblock Copolymers Based on Polydimethylsiloxane and Polyamides from Dicarboxylic Acid and Diisocyanate Terminated Functionalities, 611C
Ottani, S.
—; Porter, R. S.: A Calorimetric Investigation on High Molecular Weight Polyethylene Reactor Powders, 1179P
Ottani, S. See Wang, L. H., 1189P
Otton, J.
—; Ratton, S.: Investigation of the Formation of Poly(ethylene Terephthalate) with Model Molecules. IV. Catalysis of the Esterification of Ethylene Glycol with Benzoic Acid and of the Condensation of Ethylene Glycol Monobenzoate, 377C
Ou, S. H.
—; Ishida, H.; Lando, J. B.: Investigation of Ethylene-Vinyl Alcohol Copolymers for Surface Modification of Contact Lenses, 67P
Oultache, A. K. See Halary, J. L., 933P
Ozkan, H. S. See Guney, H. Y., 897P

Padiyath, P. See Ramesh, N. S., 1031P
Painter, P. C. See Bhagwagar, D. E., 1547P
Pan, R. See Varma-Nair, M., 1107P
Pan, T.-C.
—; Kuo, J.-F.; Chen, C.-Y.: The Effect of Sodium Methacrylate on the Soapless Emulsion Copolymerization of Methyl Methacrylate and *n*-Butyl Acrylate, 709C
Pang, Y. See Bu, H., 139P
Park, C.-K. See Jin, J.-I., 93C
Park, I.
—; Barlow, J. W.; Paul, D. R.: Terminal Anhydride Functionalization of Polystyrene, 1329C
Park, K. D.
—; Piao, A. Z.; Jacobs, H.; Okano, T.; Kim, S. W.: Synthesis and Characterization of SPUU-PEO-Heparin Graft Copolymers, 1725C
Parker, D. G. See Collyer, A. A., 193C
Pascault, J. P. See Serier, A., 209C, 1125C
Pascault, J.-P. See Surivet, F., 1977C; Won, Y.-G., 981P
Pasch, H.
—; Hovakeemian, G.; Lahalih, S.: Investigations of the Chemical Structure of Sulfonated Amino-Formaldehyde Resins. V. ^{13}C-NMR Analysis of Sulfonated Urea-Melamine-Formaldehyde Resins, 525C
Pasika, W. M.
—; Chen, D. J.: Copolymerization of Styrene Oxide and Cyclohexene Oxide, 1475C
Pasternak, M.
—; Dorawala, T. G.: Preferential Removal of Alcohols from Aqueous Solutions by Ion Exchange Membranes Containing Organic Counterions, 915C
Paul, D. R.
Review of *Concise Encyclopedia of Polymer Science and Engineering*, 1653P
Paul, D. R. See Brannock, G. R., 413P; McHattie, J. S., 731P; Park, I., 1329C; Weinkauf, D. H., 329P
Paulaitis, M. E. See Wissinger, R. G., 631P
Pavlova, S. See Velichkova, R., 1107C
Peanasky, J. S.
—; Long, J. M.; Wool, R. P.: Percolation Effects in Degradable Polyethylene-Starch Blends, 565P
Pearce, E. M. See Chien, Y. Y., 849C; Wang, L. F., 619P
Pearson, D.
—; Herbolzheimer, E.; Grizzuti, N.; Marrucci, G.: Transient Behavior of Entangled Polymers at High Shear Rates, 1589P
Pearson, L. T.
—; Louis, P. E. J.; Gilbert, R. G.; Napper, D. H.: Studies of Particle Formation in Styrene Emulsion Polymerizations Using 9-Vinyl Anthracene as a Probe Molecule, 515C
Pegoraro, M.
—; di Landro, L.; Severini, F.; Cao, N.; Donzelli, P.: Polyurethane Network Structure from Tensile Tests, 365P
Peiffer, D. G. See Wang, Z., 1361P
Penczek, S. See Biedron, T., 619C; Kaluzynski, K., 1825C; Lapienis, G., 1523C
Penlidis, A. See Dube, M., 703C
Peppas, N. A. See Bowman, C. N., 1575C; Mikos, A. G., 837P; Scranton, A. B., 211P
Percec, V.
—; De Souza Gomes, A.; Lee, M.: Molecular Engineering of Liquid Crystal Polymers by Living Polymerization. XI. Synthesis and Characterization of Poly {11-[(4-Cyano-4′-*trans*-α-Cyanostilbene)-oxy]undecanyl Vinyl Ether}, 1615C
—; Heck, J.: Liquid Crystalline Polymers Containing Mesogenic Units Based on Half-Disc and Rod-Like Moieties. I. Synthesis and Characterization of 4-(11-Undecan-1-yloxy)-4′-[3,4,5-Tri(p-n-Dodecan-1-yloxybenzyloxy)benzoate]-Biphenyl Side Groups, 591C
—; Lee, M.; Jonsson, H.: Molecular Engineering of Liquid Crystal Polymers by Living Polymerization. II. Living Cationic Polymerization of 11-[(4-Cyano-4′-Biphenyl)oxy]-undecanyl Vinyl Ether and the Mesomorphic Behavior of the Resulting Polymers, 327C
—; Rodenhouse, R.: Liquid Crystal Polymers Containing Macroheterocyclic Ligands. III. Side Chain Liquid Crystalline Polymethacrylates Containing Mesogenic Units Based on Diarylacetylenes and Benzo-15-Crown-5, 15C
—; Wang, J. H.: Phase Transfer Catalyzed Polymerization of 4-Bromo-2,6-Dimethylphenol in the Presence of Either 2,4,6-Trimethylphenol or 4-*tert*-Butyl-2,6-Dimethylphenol, 63C
—; Wang, J. H.; Oishi, Y.: Synthesis of Aromatic Polyethers by Scholl Reaction. II. On the Polymerizability of 4,4′-Bis(phenoxy)diphenyl

Sulfones and of 4,4′-Bis(phenylthio)diphenyl Sulfone, 949C
—; Wang, J. H.; Oishi, Y.; Feiring, A. E.: Synthesis of Aromatic Polyethers by Scholl Reaction. IV. Homopolymerization and Copolymerization of α,ω-Bis[4-(1-Naphthoxy)phenylsulfonyl]-perfluoroalkanes, 965C
—; Wang, J. H.; Okita, S.: Synthesis of Aromatic Polyethers by Scholl Reaction. V. Synthesis and Polymerization of 1,3-Bis[4-(1-Naphthoxy)benzoyl]-benzene, 1,4-Bis[4-(1-Naphthoxy)benzoyl]benzene, Bis[4-(1-Naphthoxy)phenyl] methane, 1,3-Bis[4-(1-Naphthoxy)phenylmethyl] benzene, and 1,4-Bis-[4-(1-Naphthoxy)phenylmethyl] benzene, 1789C
Percec, V. See de Souza Gomes, A., 919C
Pereira, J. L. C. See da Silva, M. A., 275C
Peres, R. C. D.
—; Pernaut, J. M.; de Paoli, M.-A.: Polypyrrole/Dodecylsulfate: Effects of Different Synthesis Conditions, 225C
Pernaut, J. M. See Peres, R. C. D., 225C
Persico, D. F.
—; Lagow, R. J.: A Facile Synthesis for Functional Perfluoropolyether Oligomers, Diacids, Diesters, and Surfactants, 233C
Petermann, J. See Kawaguchi, A., 683P
Peters, E. M.
—; Van Dyke, J. D.: Copolymers of Pyrrole and Bithiophene by Oxidative Electropolymerization, 1379C
Peterson, J. R.
—; Russell, M. E.; Everson, T. P.: Synthesis and Experimental Ionization Energies of Certain Methoxy-Substituted Styrenes, 933C
Petraccone, V. See Guerra, G., 265P
Phillips, P. J. See Lee, Y. D., 1235P
Piao, A. Z. See Park, K. D., 1725C
Piedade, A. P. See da Silva, M. A., 269C
Pimonenko, N. Y. See Bogoeva-Catseva, G., 907P
Plans, J. See Ordejón, P., 811P
Plazek, D. J.
—; Chay, I.-C.: The Evolution of the Viscoelastic Retardation Spectrum During the Development of an Epoxy Resin Network, 17P
Plazek, D. J. See Bero, C. A., 39P
Pleštil, J.
—; Baldrian, J.; Ostanevich, Y. M.; Bezzabotnov, V. Y.: Small-Angle Neutron and X-Ray Scattering Study of Swollen Nylon-6, 509P
Poehlein, G. W. See Lange, D. M., 785C
Ponomareva, M. See Velichkova, R., 1107C
Ponrathnam, S. See Gadgil, J. M., 1077C
Porter, R. S. See Ottani, S., 1179P; Wang, L. H., 1189P
Powell, P. See Mai, Y.-W., 785P
Price, C. See Raby, P., 451P
Prud'homme, R. E. See Ajji, A., 1573P; Hmamouchi, M., 1281C
Pucciariello, R. See Villani, V., 1255P
Puskas, J. E. See Kaszas, G., 421C, 427C

Qian, C.
—; Mumby, S. J.; Eichinger, B. E.: Existence of Two Critical Concentrations in Binary Phase Diagrams, 635P
Qiuxiong, H. See Kecheng, G., 1225C

Raby, P.
—; Budd, P. M.; Heatley, F.; Price, C.: Nuclear Magnetic Relaxation of α-^{13}C Nuclei of Helical Poly(γ-hexyl-L-Glutamate) and Poly(γ-benzyl-L-Glutamate), 451P
Ragab, Y. A.
Electron Donor-Acceptor Complexes and Attempted Copolymerization of Maleic Anhydride with Some Pyrroles, 773C
Rajamohanan, P. R. See Gadgil, J. M., 1077C
Rajan, C. R. See Gadgil, J. M., 1077C
Rajendran, A. G.
—; Timpe, H.-J.: Kinetic Studies on Light-Induced Cationic Ring-Opening Reactions on 2,3-Epoxypropyl Phenyl Ether, 1491C
Ramaraj, R.
—; Natarajan, P.: Preparation and Photochemistry of Macromolecular Bound Ruthenium(II) Complexes in Aqueous Solutions, 1339C
Ramesh, N. S.
—; Padiyath, P.; Campbell, G. A.; Babu, S. V.: Observation of Morphology of Polystyrenic Materials Using Oxygen Plasma Etching, 1031P
Rathi, R. C.
—; Kopečková, P.; Říhová, B.; Kopeček, J.: *N*-(2-Hydroxypropyl)methacrylamide Copolymers Containing Pendant Saccharide Moieties: Synthesis and Bioadhesive Properties, 1895C
Ratton, S. See Otton, J., 377C
Rault, J. See Okoroafor, E., 1427P
Ray, J. K. See Wei, Y., 749C
Rebenstorf, B.
The Active Species of the Chromium (Phillips Type) Catalysts for the Polymerization of Ethylene: A Unifying Approach, 1949C
Reddy, C. R.
—; Lenz, R. W.: Liquid Crystalline Properties of a Series of Thermotropic Copolyesters Containing both Mesogenic and Nonmesogenic Units, 1015C
Redinha, J. S. See da Silva, M. A., 269C, 275C
Ree, M.
—; Yoon, D. Y.; Volksen, W.: Miscibility Behavior and Reequilibration of Binary Poly(amic Acid) Mixtures, 1203P
Ree, M. See Moylan, C. R., 87P, 771P
Register, R. A. See Yang, C.-Z., 581P
Reilly, P. M. See Dube, M., 703C
Reinhardt, B. A. See Lindley, P. M., 1061C
Rempel, G. L. See Sibtain, F., 629C
Renaldo, A. F. See Ito, H., 1001C
Riande, E. See Conde, L., 1525P; Díaz-Calleja, R., 93P
Rich, J. D. See McDermott, P. J., 1681C
Richards, M.
—; Dahiyat, B. I.; Arm, D. M.; Lin, S.; Leong, K. W.: Interfacial Polycondensation and Characterization of Polyphosphates and Polyphosphonates, 1157C
Říhová, B. See Rathi, R. C., 1895C

Ríos, H. E.
—; Gamboa, C.; Ternero, G.: Counterion Binding to Cationic Polyelectrolytes in Aqueous Solution, 805P
Rochanapruk, T. See Adduci, J. M., 453C
Rodenhouse, R. See Percec, V., 15C
Rodriguez, V. S.
—; Asua, J. M.; El-Aasser, M. S.; Silebi, C. A.: Mathematical Modeling of Seeded Miniemulsion Copolymerization for Oil-Soluble Initiator, 483P
Roland, C. M. See Sonnenschein, M. F., 431P
Ron, E. See Domb, A. J., 571C
Rubinsztajn, S. See Vilenchik, L. Z., 1137P
Rubio, M. A. See Conde, L., 1525P
Runt, J. See Yeh, J. T., 371P
Russell, M. E. See Peterson, J. R., 933C
Russo, R. See Vittoria, V., 1163P

Saba, H. See Yamashita, K., 777C
Saito, H.
—; Matsuura, M.; Inoue, T.: Depolarized Light Scattering Studies on Single-Phase Mixtures of Dissimilar Polymers: Evidence for Local Ordering, 1541P
Saito, N. See Hashimoto, T., 339C
Saito, R. See Ishizu, K., 607C
Salajka, Z. See Chien, J. C. W., 1243C, 1253C
Salem, D. R.
—; Weigmann, H.-D.: Thermally Induced Molecular Orientation in the Noncrystalline Regions of High-Speed Spun Poly(ethylene Terephthalate) Fibers, 765P
Salovey, R. See Ding, Z. Y., 1035P
San Román, J.
—; Levenfeld, B.; Madruga, E. L.; Vairon, J. P.: Biocompatible Polymeric Systems: Copolymerization of 4-Methacryloyloxy-Acetanilide with 2-Hydroxyethyl-Methacrylate, 1023C
Sanayei, A. See Dube, M., 703C
Sano, Y. See Hashimoto, T., 339C
Santa Cruz, C.
—; Baltá Calleja, F. J.; Zachmann, H. G.; Stribeck, N.; Asano, T.: Relating Microhardness of Poly(ethylene Terephthalate) to Microstructure, 819P
Sarlin, J.
—; Törmälä, P.: Isothermal Heat Treatment of a Thermotropic LCP Fiber, 395P
Sarraf, T. See Halary, J. L., 933P
Sarwade, B. D.
—; Mahajan, S. S.: Synthesis and Characterization of Polyamides Containing *s*-Triazine Rings in the Main Chain, 825C
Sasaki, M. See Sato, H., 1073P
Sasaki, S.
Crystal Transition and Structure of Poly(γ-n-Alkyl Glutamate)s, 527P
Sastre, R. See Mateo, J. L., 1955C
Sato, H.
—; Ogino, K.; Maruo, S.; Sasaki, M.: Separation of Styrene-Methacrylate Copolymers by Composition Using Normal and Reversed-Phase High-Performance Liquid Chromatography, 1073P
Sato, K.
—; Hirai, H.: Polymerization of Coordinated Monomers. XX. *Ab Initio* Molecular Orbital Study on the Binary Molecular Complex Composed of Methyl Methacrylate and Boron Trichloride, 1507C
Sawamoto, M. See Hashimoto, T., 339C; Kamigaito, M., 1909C
Schaedeli, U. P. See McKean, D. R., 309C
Scheinbeim, J. I. See Lee, J. W., 273P, 279P
Scheirs, J.
—; Bigger, S. W.; Delatycki, O.: Effect of Thermal Oxidation on the Spherulitic Morphology of High-Density Polyethylene, 795P
Schilling, M. L. See Kaplan, M. L., 599C
Schmidt, H.-W. See Hatke, W., 1387C
Schmitz-Smets, M. See van den Broeck, H., 201C
Schmolke, R. See Büchtemann, A., 1299P
Schneider, H.
Modified Fuoss-Kirkwood Distribution Function for Interpretation of Asymmetric NMR Relaxation Curves. I., 1171P
Scholtens, B. J. R. See Tiemersma-Thoone, G. P. J. M., 463P
Schroeder, J. R.
—; Hammouda, B.; Bubeck, R. A.; Chang, J. W.: SANS from Hot-Stretched Polystyrene Revisited, 1607P
Schultz, J. M. See Hristov, H. A., 883P
Scranton, A. B.
—; Klier, J.; Peppas, N. A.: Complexation Thermodynamics of Free and Graft Oligomers with Complementary Polymers, 211P
Seferis, J. C. See Nam, J.-D., 601P
Senecal, K. J. See Akkara, J. A., 1561C
Serier, A.
—; Pascault, J. P.; Lam, T. M.: Reactions in Aminosilane-Epoxy Prepolymer Systems. II. Reactions of Alkoxysilane Groups with or without the Presence of Water, 1125C
—; Pascault, J. P.; My, L. T.: Reactions in Aminosilane-Epoxy Prepolymer Systems I. Kinetics of Epoxy-Amine Reactions, 209C
Severini, F. See Pegoraro, M., 365P
Shaffer, T. D.
—; Tsay, L.-M.: Pre-Rotaxane Polymers, 1213C
Shen, S.
—; El-Aasser, M. S.; Dimonie, V. L.; Vanderhoff, J. W.; Sudol, E. D.: Preparation and Morphological Characterization of Microscopic Composite Particles, 857C
Shick, R. See Ishida, H., 1095P
Shiibashi, T. See Kubo, K., 57P
Shim, H.-K. See Jin, J.-I., 93C
Shimomura, K. See Ishizu, K., 607C, 923C
Shimomura, M. See Tanabe, Y., 501P
Shin, J. M. See Yoon, J. H., 393C
Shinde, B. M. See Jadhav, A. S., 147C
Shindo, Y. See Hasegawa, M., 1515C
Shiomura, T. See Chatani, Y., 1649P
Shirakawa, H. See Tanabe, Y., 501P
Shukla, P.
—; Muthukumar, M.: Supramolecular Structure Investigation of Poly(γ-benzyl, α-*l*-glutamate)-Benzyl

Alcohol System by Static Light Scattering, 1373P
Sibtain, F.
—; Rempel, G. L.: Chemical Modification of Polymers: Catalytic Hydroformylation and Hydroxymethylation of Styrene-Butadiene Copolymers, 629C
Sidebottom, D. L.
—; Johari, G. P.: Sub-T_g Relaxations in $LiClO_4$-Poly (propylene Glycol)-2000 Solutions, 1215P
Silebi, C. A. See Rodriguez, V. S., 483P
Sinta, R. F. See Gaudiana, R. A., 45C
Sivadasan, K.
—; Somasundaran, P.: Complexation of Hydrolyzed Poly(acrylamide) with Poly(acrylic Acid) by Excimer Fluorescence Measurements of Pyrene Labeled Polymers, 911C
Smets, G. See van den Broeck, H., 201C
Smid, J. See Zhou, G., 1097C
Smirnova, N. V.
—; Gabrielyan, G. A.; Gal'braikh, L. S.: Complexing Effect in the Reaction of Graft Polymerization Proceeding by the Coordination-Radical Mechanism with the Participation of Copper Ions, 139C
Smit, K. J.
—; Ghiggino, K. P.: Effect of Polymer Binding on the Spectroscopic Properties of Stilbene-Based Fluorescent Dyes, 1397P
Soen, T. See Takahashi, H., 1419P
Soloski, E. J. See Bai, S. J., 119P
Somasundaran, P. See Sivadasan, K., 911C
Song, D. See Bu, H., 139P
Song, X. See Xu, J., 877P
Sonnenschein, M. F.
—; Roland, C. M.: Intersegmental Interaction and Critical Concentrations in PET-HFIP Solutions, 431P
Sooriyakumaran, R. See Miller, R. D., 813C
Spevacek, J. A. See McHugh, A. J., 969P
Spinu, M.
—; McGrath, J. E.: Synthesis of Poly(Dimethylsiloxane) Oligomers with Pendant Amine Groups via Co-Equilibration Anionic Polymerization Reactions, 657C
St. Clair, A. K. See Hirose, T., 341P
Stenger-Smith, J. D.
—; Fischer, J. W.; Henry, R. A.; Hoover, J. M.; Nadler, M. P.; Nissan, R. A.; Lindsay, G. A.: Poly[(4-*N*-Ethylene-*N*-Ethylamino)-α-Cyanocinnamate]: A Nonlinear Optical Polymer with a Chromophoric Mainchain. I. Synthesis and Spectral Characterization, 1623C
Stern, S. A. See Hirose, T., 341P; Mi, Y., 389P
Stewart, M. J. See Colletti, R. F., 1633C
Stoks, W.
—; Berghmans, H.: Phase Behavior and Gelation of Solutions of Poly(vinyl Alcohol), 609P
Storey, R. F.
—; Herring, K. R.; Hoffman, D. C.: Hydroxy-Terminated Poly(ε-Caprolactone-co-δ-Valerolactone) Oligomers: Synthesis, Characterization, and Polyurethane Network Formation, 1759C
—; Lee, Y.: Sulfonation of *tert*-Alkyl Chlorides: Application to the *tert*-Chloride-Terminated Polyisobutylene System, 317C
Stribeck, N. See Santa Cruz, C., 819P
Sudol, E. D. See Shen, S., 857C
Sue, H. J.
—; Garcia-Meitin, E. I.; Burton, B. L.; Garrison, C. C.: A Novel Staining Technique for Studying Toughening Mechanisms in Saturated Acrylic Rubber-Modified Polymers, 1623P
Sueoka, K.
—; Nagata, M.; Ohtani, H.; Nagai, N.; Tsuge, S.: Thermal Degradation Mechanisms of Liquid Crystalline Aromatic Polyesters Studied by Pyrolysis-Gas Chromatography/Mass Spectrometry, 1903C
Suezaki, M. See Tanabe, Y., 501P
Sugimoto, A. See Nomura, M., 987C
Sugimoto, R. See Chien, J. C. W., 459C
Sugimura, T. See Hasegawa, M., 1515C
Sumitomo, H. See Hashimoto, K., 1271C
Sundberg, D. C. See Muscato, M. R., 1021P
Sundell, P.-E.
—; Jönsson, S.; Hult, A.: Photo-Redox Induced Cationic Polymerization of Divinyl Ethers, 1525C
—; Jönsson, S.; Hult, A.: Thermally Induced Cationic Polymerization of Divinyl Ethers Using Iodonium and Sulfonium Salts, 1535C
Sung, N.
Review of Analysis and Performance of Fiber Composites, 1835C
Sung, P.-H. See Lee, Y.-L., 1083C
Surivet, F.
—; Lam, T. M.; Pascault, J.-P.: Control Synthesis of Isocyanate and Alkoxy-Silane Terminated Macromers, 1977C
Sutter, J. K. See Waters, J. F., 1917C
Swint, S. A. See Keohan, F. L., 303C
Szydlowski, J.
—; Van Hook, W. A.: Glass Capillary Optical Cell to Determine the Pressure Dependence of Polymer-Solvent Phase Transitions at Near Critical Conditions by Light Scattering, 1437P
Szymanski, R. See Kaluzynski, K., 1825C

Tadano, K. See Hirasawa, E., 753P
Takada, T. See Endo, T., 135C
Takahashi, H.
—; Kyu, T.; Tran-Cong, Q.; Yano, O.; Soen, T.: Phase Separation in Mixtures of Poly(ethylene glycol Monomethylether) and Poly(Propylene Glycol) Oligomers, 1419P
Takahashi, Y.
—; Yuzuriha, K.; Gehoh, M.: Crystal Structure of Silk (Bombyx mori), 889P
Takahashi, Y. See Iijima, M., 1717C
Takase, Y. See Lee, J. W., 273P, 279P
Takata, T.
—; Igarashi, M.; Endo, T.: Synthesis and Cationic Ring-Opening Polymerization of a Cyclic Carbonate, 5-

Methylene-1,3-dioxan-2-one, 781C
Takata, T. See Hamazu, F., 1675C, 1845C
Takata, T. See Kikkawa, A., 1089C; Kitamura, N., 1151C
Takechi, S. See Matsuda, H., 83C
Takeuchi, N. See Tsutsumi, N., 1085P
Takizawa, A. See Hachisuka, H., 11P
Tan, K. L. See Kang, E. T., 669P; Neoh, K. G., 759C
Tanabe, Y.
—; Kyotani, H.; Shimomura, M.; Akagi, K.; Suezaki, M.; Kasai, T.; Shirakawa, H.: Kinetic Analysis of *Cis-Trans* Thermal Isomerization of Polyacetylene, 501P
Tanaka, Y.
—; Oishi, Y.; Kakimoto, M.-A.; Imai, Y.: Synthesis and Properties of Aromatic Polyamide-Benzoxazoles from Trimethylsilyl-Substituted 2,4-Diaminophenol and Aromatic Dicarboxylic Acid Chlorides, 1941C
Tasaka, S.
—; Inagaki, N.; Igawa, M.: Effect of Annealing on Structure and Permeability of Poly[(*1*-trimethylsilyl)-*1*-propyne], 691P
Tashiro, K.
—; Ono, K.; Minagawa, Y.; Kobayashi, M.; Kawai, T.; Yoshino, K.: Structure and Thermochromic Solid-State Phase Transition of Poly(3-alkylthiophene), 1223P
Taylor, A. E. See Colletti, R. F., 1633C
Telluri, V. See Chien, J. C. W., 495C
Terada, K. See Naito, Y., 457P
Teramoto, A. See Nakamura, Y., 153P
Terebenina, A. See Todorova, O. G., 889C
Ternero, G. See Ríos, H. E., 805P
Thangamathesvaran, P. M.
—; Jain, S. R.: Synthesis and Characterization of Thiocarbonohydrazone-Based Epoxy Resins, 261C
Theil, M. H. See de Groot, A. W., 547P
Thiel, M. H. See de Groot, A. W., 557P
Thompson, D. See Miller, R. D., 813C
Thompson, E. See Judge, M. D., 1203C
Thomsen, S. A. See Kricheldorf, H. R., 1751C
Tiemersma-Thoone, G. P. J. M.
—; Scholtens, B. J. R.; Dušek, K.; Gordon, M.: Theories for Network Formation in Multistage Processes, 463P
Timpe, H.-J. See Rajendran, A. G., 1491C
Todorova, O. G.
—; Gitsov, I.; Borissov, G.; Terebenina, A.: Copolymerization of New Pyrazolone-Containing Monomers with Certain Vinyl Comonomers, 889C
Toncheva, V. See Velichkova, R., 1107C
Tonck, A. See Montfort, J. P., 677P
Toppare, L. K. See Hacioglu, B., 1829C
Törmälä, P. See Sarlin, J., 395P
Toscano, P. J.
—; Frisch, H. L.: Dual-Mode Sorption of Tri-n-Butyl Phosphate in Polystyrene Studied via High-Resolution Solid-State ^{31}P-NMR Spectroscopy, 1219C
Toucet, I.
—; Aponte, M. A.: Synthesis of Monomers Containing Guanine or Guanine Precursors as Substituent Groups, 1883C
Tran-Cong, Q. See Takahashi, H., 1419P
Triolo, R. See Wignall, G. D., 349P
Trumbo, D. L.
Copolymerization Behavior of 2-Vinyl Thiophene, 603C
Copolymerization Behavior of 2-Vinylbenzofuran: Copolymers of Ethyl Acrylate, *n*-Butyl Acrylate, and Methyl Methacrylate, 357C
—; Zander, R. A.: The Copolymerization Behavior of Acrylate Dimers: Copolymers of Methyl, Ethyl, and n-Butyl Acrylate Dimers, 1053C
Tsai, H.-B.
—; Lee, C.; Chang, N.-S.; Lin, F.-L.; Hsu, H.-H.; Hu, A. T.: Poly(p-oxybenzoate-co-p-phenylene Isophthalate)s. IV. Crystallization Kinetics of Two Copolyesters, 893P
Tsang, C. J.
—; Clark, J. C.; Wellinghoff, S. T.; Miller, W. G.: Structure-Property Relationships in Poly(*n*-vinyl Pyrrolidone)-Phenoxy-Water Gels, 247P
Tsay, C. S.
—; McHugh, A. J.: The Combined Effects of Evaporation and Quench Steps on Asymmetric Membrane Formation by Phase Inversion, 1261P
Tsay, L.-M. See Shaffer, T. D., 1213C
Tseng, H.-S.
—; Lloyd, D. R.; Ward, T. C.: Phase Behavior of Polystyrene-Polyisoprene-Toluene Systems in the Temperature Range 15–45°C, 161P
Tsou, A. H. See Greener, J., 843P
Tsou, J.-D. See Lee, Y.-L., 1083C
Tsubokawa, N.
—; Kogure, A.: Surface Grafting of Polymers onto Inorganic Ultrafine Particles: Reaction of Functional Polymers with Acid Anhydride Groups Introduced onto Inorganic Ultrafine Particles, 697C
Tsuchida, E. See Yamamoto, K., 1359C
Tsuchihara, K.
—; Masuda, T.; Higashimura, T.: Effects of Ultraviolet Irradiation on Substituted Polyacetylenes, 471C
Tsuda, K. See Kondo, S., 243C; Yamashita, K., 777C
Tsuge, S. See Sueoka, K., 1903C
Tsujita, Y. See Hachisuka, H., 11P
Tsutsumi, N.
—; Chen, Y.-H.; Kiyotsukuri, T.: Novel Regular Network Polyester Films from Aromatic Tetracarboxylic Acids and Ethylene Glycol, 1963C
—; Takeuchi, N.; Kiyotsukuri, T.: Measurement of Thermal Diffusivity of Filler-Polyimide Composites by Flash Radiometry, 1085P
Tune, P. D. See Guthrie, J. T., 1301C
Twomey, C. J.
—; Chen, S. H.: Solid Polymers Doped with Rare Earth Metal Salts. I. Complex Formation and Morphology in the Neodymium Chloride-Poly(Ethylene Oxide) System, 859P
Tzou, D. L.
—; Desal, P.; Abhiraman, A. S.; Huang, T.-H.: NMR Studies of the Structural

Development of High-Speed Melt-Spun Poly(Ethylene Terephthalate) Fibers, 49P

Uchikura, M. See Nagase, Y., 171P
Ueda, M.
—; Mano, M.; Mori, H.; Ito, H.: Polymerization of α-Methyleneindane: A Cyclic Analog of α-Methylstyrene, 1779C
Ueda, R. See Endo, K., 807C, 843C
Ueda, T. See Nagase, Y., 171P
Urata, Y. See Moriya, O., 1501C
Urquiola, B.
—; Arzamendi, G.; Leiza, J. R.; Zamora, A.; Asua, J. M.; Delgado, J.; El-Aasser, M. S.; Vanderhoff, J. W.: Semicontinuous Seeded Emulsion Copolymerization of Vinyl Acetate and Methyl Acrylate, 169C

Vairon, J. P. See San Román, J., 1023C
Vallo, C. I.
—; Frontini, P. M.; Williams, R. J. J.: The Glass Transition Temperature of Nonstoichiometric Epoxy–Amine Networks, 1503P
van den Broeck, H.
—; Schmitz-Smets, M.; Smets, G.: Photochemical Synthesis of Nitroxyl Free Radicals in the Presence of Vinyl Monomers, 201C
Van Dyke, J. D. See Peters, E. M., 1379C
Van Eijk, C. P. See Kip, B. J., 99P
Van Hook, W. A. See Szydlowski, J., 1437P
Vandenberg, E. J.
—; Mullis, J. C.: Coordination Copolymerization of Tetrahydrofuran and Oxepane with Oxetanes and Epoxides, 1421C
Vanderhoff, J. W. See Shen, S., 857C; Urquiola, B., 169C
Vanderwal, J. J. See Mangion, M. B. M., 723P
Vargo, T. G.
—; Gardella, J. A., Jr.; Meyer, A. E.; Baier, R. E.: Hydrogen/Liquid Vapor Radio Frequency Glow Discharge Plasma Oxidation/Hydrolysis of Expanded Poly(tetrafluoroethylene) (ePTFE) and Poly(vinylidene Fluoride) (PVDF) Surfaces, 555C
—; Hook, D. J.; Gardella, J. A., Jr.; Eberhardt, M. A.; Meyer, A. E.; Baier, R. E.: A Multitechnique Surface Analytical Study of a Segmented Block Copolymer Poly(ether-Urethane) Modified through an H_2O Radio Frequency Glow Discharge, 535C
Varma-Nair, M.
—; Pan, R.; Wunderlich, B.: Heat Capacities and Entropies of Linear, Aliphatic Polyesters, 1107P
Velichkova, R.
—; Toncheva, V.; Getova, C.; Pavlova, S.; Dubrovina, L.; Gladkova, E.; Ponomareva, M.: Styrene-Isoprene Block Copolymers. I. Synthesis and Solution Properties, 1107C
Venerus, D. C. See Vrentas, J. S., 537P
Verdu, J. See Won, Y.-G., 981P
Vernekar, S. P. See Jadhav, A. S., 147C
Vijayakumar, C. T.
—; Lederer, K.; Kramer, A.: Thermogravimetric Study of Nadic-, Methylnadic-, and Allylnadic-Bisimide Monomers, 929C
Vilenchik, L. Z.
—; Rubinsztajn, S.; Zeldin, M.; Fife, W. K.: Characterization of a Single Sample of an Unknown Polymer by Size Exclusion Chromatography, 1137P
Villani, V.
—; Pucciariello, R.; Ajroldi, G.: Calorimetric Study of the Room-Temperature Transitions of Polytetrafluoroethylene: The Influence of Thermal History, 1255P
Viras, F.
—; Viras, K.; Campbell, C.; King, T. A.; Booth, C.: Low-Frequency Raman Spectra of Odd α,ω-Disubstituted *n*-Alkanes, 1467P
Viras, K. See Campbell, C., 1613P; Viras, F., 1467P
Vitagliano, V. M. See Guerra, G., 265P
Vittoria, V.
—; Russo, R.; De Candia, F.; Magagnini, P. L.; Bresci, B.: Transport Properties of a Side-chain Liquid-Crystalline Polymer. Poly(4-acryloyloxy biphenyl), 1163P
Volksen, W. See Ree, M., 1203P
Voll, T. M. See Bu, H., 139P
von Meerwall, E. See Iannacchione, G., 659P
von Meerwall, E. D. See Cheng, S. Z. D., 515P
Vora, R. H. See Chung, T.-S., 1207C
Vrentas, C. M. See Vrentas, J. S., 537P
Vrentas, J. S.
—; Venerus, D. C.; Vrentas, C. M.: Step-Strain Deformations for Viscoelastic Fluids: Formulation of a Strain-Coupling Constitutive Equation, 537P

Wachi, S.
—; Yates, J. G.: Measurement of Molecular Transport in Poly(vinyl Chloride) by the Step Response Technique, 1069P
Waldman, D. A. See Fan, C. F., 235P
Walker, W. See Harrell, J. W. Jr., 1039P
Walton, D. See Mangion, M. B. M., 723P
Wang, B.
—; Wilkes, G. L.: New Ti-PTMO and Zr-PTMO Ceramer Hybrid Materials Prepared by the Sol Gel Method: Synthesis and Characterization, 905C
Wang, J. See Wang, Z., 1361P
Wang, J. H. See Percec, V., 63C, 949C, 965C, 1789C
Wang, L.
—; Huang, B.: Structure and Properties of Sequentially Polymerized Propylene-*b*-[Ethylene-co-Propylene]-*b*-Propylene Copolymers, 1447P
Wang, L. F.
—; Pearce, E. M.; Kwei, T. K.: Glass Transitions in Hydrogen-Bonded Polymer Complexes, 619P
Wang, L. H.
—; Ottani, S.; Porter, R. S.: A Raman LAM Study of Lamellar Thickness of Virgin Polyethylene Powder, 1189P
Wang, Z.
—; Wang, J.; Chu, B.; Peiffer, D. G.: Solution Behavior of Random Copolymers of Styrene with Sodium-2-Acrylamido-2-Methylpropane Sulfonate, 1361P
Wang, Z. Y.
—; Hay, A. S.: Synthesis of

Poly(arylene Ether)s Based on 9,9-Bis(3,5-Diphenyl-4-Hydroxyphenyl)fluorene, 1045C
Ward, I. M. See Gallagher, G. A., 1147P
Ward, T. C. See Tseng, H.-S., 161P
Waters, J. F.
—; Sutter, J. K.; Meador, M. A. B.; Baldwin, L. J.; Meador, M. A.: Addition Curing Thermosets Endcapped with 4-Amino[2.2]paracyclophane, 1917C
Wei, K.-T. See Lee, Y.-L., 1083C
Wei, Y.
—; Hariharan, R.; Ray, J. K.: Synthesis, Polymerization, and Thermal Properties of a New Acetylene-Terminated Schiff Base, 749C
Weigmann, H.-D. See Salem, D. R., 765P
Weinkauf, D. H.
—; Paul, D. R.: Gas Transport Properties of Liquid Crystalline Poly(ethylene Terephthalate-co-*p*-Oxybenzoate), 329P
Wellinghoff, S. T. See Tsang, C. J., 247P
Wen, W.-Y. See Cain, E. J., 1009P
Wendorff, J. H. See Budesheim, K. W., 1819C
Wheatley, G. W. See Collyer, A. A., 193C
Whitcombe, M. J.
—; Gilbert, A.; Hirai, A.; Mitchell, G. R.: Cinnamate Ester Containing Liquid Crystalline Side Chain Polymers, 251C
White, J. R.
—; Chapman, J. N.; McVitie, S.: Multiple Dark-Field STEM: A New Method for Beam-Sensitive Polymers, 31P
Wieder, F. See Fouassier, J.-P., 1319C
Wignall, G. D.
—; Annis, B. K.; Triolo, R.: X-Ray Scattering Studies of the Structure of Aqueous Hydroxy-Propylcellulose Solutions, 349P
Wilkes, G. L. See Wang, B., 905C
Williams, R. J. J. See Vallo, C. I., 1503P
Wintersgill, M. C. See Fontanella, J. J., 747P
Wissinger, R. G.
—; Paulaitis, M. E.: Glass Transitions in Polymer/CO_2 Mixtures at Elevated Pressures, 631P
Wolf, C. J.
—; Bornmann, J. A.; Grayson, M. A.: The Absorption of Organic Liquids in Poly(Aryl-Ether-Ether-Ketone) [PEEK], 1533P
Wollmann, D. See Diaz, A., 1559P
Won, Y.-G.
—; Galy, J.; Pascault, J.-P.; Verdu, J.: Prediction of the Glass Transition Temperature of Cycloaliphatic Amine-Epoxy Networks, 981P
Wong, S.-W. See Chen, W.-P., 1513P
Wool, R. P. See Peanasky, J. S., 565P
Wu, C. See Li, Y., 1309P
Wunderlich, B. See Bu, H., 139P; Varma-Nair, M., 1107P

Xiao, X. H. See Frisch, H. L., 1031C
Xie, M.-L.
—; Oishi, Y.; Kakimoto, M.-A.; Imai, Y.: Synthesis and Characterization of Aromatic Polyamides from 1,1-Bis(4-Aminophenyl)-2,2-Diphenylethylene and Aromatic Diacid Chlorides, 55C
Xu, J.
—; Song, X.; Zhou, Z.; Yan, D.: Third-Order Interaction Approximation for Linear Polymer Chains, 877P
Xu, P.
—; Mark, J. E.: Biaxial Extension Measurements on Bimodal Elastomeric Networks, 355P

Yamada, A. See Nomura, M., 987C
Yamada, B.
—; Yoshikawa, E.; Otsu, T.: Spin Trapping of Propagating Radicals Derived from Dialkyl Fumarates, 637C
Yamada, B. See Cheng, J.-S., 1837C; Otsu, T., 837C
Yamadaya, T. See Noro, S., 359P
Yamamoto, K.
—; Jikei, M.; Oi, K.; Nishide, H.; Tsuchida, E.: Acid Effect on Oxidative Polymerization of Diphenyl Disulfide with DDQ, 1359C
Yamamoto, Y. See Naka, Y., 1197C
Yamanobe, T. See Kubo, K., 57P
Yamashita, K.
—; Kimura, Y.; Saba, H.; Tsuda, K.: Esterolysis of Active Esters by Soluble Thiol Polymer, 777C
Yamashita, S. See Hashimoto, T., 651C
Yan, D. See Xu, J., 877P
Yang, C. Z.
—; Li, C.; Cooper, S. L.: Synthesis and Characterization of Polydimethylsiloxane Polyurea-Urethanes and Related Zwitterionomers, 75P
Yang, C.-P.
—; Huang, C.-J.: Preparation and Properties of Polyesters and Copolyesters Based on 4-Methyl-2,4-Bis(*p*-Hydroxyphenyl)-1-Pentene, 369C
—; Lin, J.-H.; Hsiao, S.-H.: Synthesis and Properties of Aliphatic-Aromatic Poly(amide-Imide)s from Sulfonyldianilines and N,N′-Bis(ω-Carboxyalkyl)-pyromellitimides, 1175C
Yang, C.-P. See Hsiao, S.-H., 447C
Yang, C.-Z.
—; Grasel, T. G.; Bell, J. L.; Register, R. A.; Cooper, S. L.: Carboxylate-Containing Chain-Extended Polyurethanes, 581P
Yang, Y. See Chien, J. C. W., 495C
Yano, O. See Takahashi, H., 1419P
Yano, S. See Hirasawa, E., 753P
Yasuda, H. See Gambogi, R. J., 1801C
Yasui, H. See Kondo, S., 243C
Yates, J. G. See Wachi, S., 1069P
Yee, A. F. See Ngai, K. L., 1493P
Yeh, J. T.
—; Runt, J.: Fatigue Crack Propagation in High-Density Polyethylene, 371P
Yokota, R. See Hasegawa, M., 1515C
Yokozawa, T. See Mizuya, J., 1545C
Yoon, C. N. See Yoon, H. N., 1081P
Yoon, D. Y. See Ree, M., 1203P
Yoon, H. N.
—; Yoon, C. N.; Kim, H. C.: Thermoacoustic Measurements During Cure of Epoxy Resin at Room Temperature, 1081P
Yoon, J. H.
—; Shin, J. M.; Kang, Y. K.; Jhon, M. S.: Conformational Analysis of Poly(2-Hydroxyethyl Methacrylate), 393C

Yoshikawa, E. See Yamada, B., 637C
Yoshino, K. See Tashiro, K., 1223P
Young, R. J. See Gerrits, N. S. J. A., 825P
Yu, L.
—; Chen, M.; Dalton, L. R.: Synthesis and Characterization of New Polymers Exhibiting Large Optical Nonlinearity. II. Processible Copolymers Containing Diacetylenic Segments, 127C
Yu, T. See Bu, H., 139P
Yu, W.-C.
—; Mattice, W. L.: A Novel Chromatographic Method for Determining the Polydispersity Index for Polymers with a Specified Number of Functional Groups, 715P
Yuzuriha, K. See Takahashi, Y., 889P

Zachmann, H. G. See Santa Cruz, C., 819P
Zakaria, S. See Briscoe, B. J., 989P
Zamora, A. See Urquiola, B., 169C
Zander, R. A. See Trumbo, D. L., 1053C
Zeldin, M. See Vilenchik, L. Z., 1137P
Zhang, A. See Cheng, S. Z. D., 287P, 299P
Zheng, Z.-F. See Bailey, W. J., 437C
Zhou, G.
—; Smid, J.: Hydrosilylation of m-TMI: New Siloxane Based Aliphatic Polyisocyanates, 1097C
Zhou, P. See Frisch, H. L., 1031C
Zhou, Z. See Xu, J., 877P
Zoller, P. See Fakhreddine, Y. A., 1141P
Zsuga, M.
—; Kennedy, J. P.: New Telechelic Polymers and Sequential Copolymers by Polyfunctional Initiator-Transfer Agents (Inifers) LVII. Chlorine Telechelic Poly(*p*-Chlorostyrene), 875C